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STEAM-ELECTRIC PLANT AIR AND WATER QUALITY CONTROL DATA

FOR THE YEAR ENDED DECEMBER 31, 1973
BASED ON FPC FORM NO.67

SUMMARY REPORT

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FEDERAL POWER COMMISSION
WASHINGTON, D.C. 20426

JANUARY 1976

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PREFACE

This publication, covering the calendar year 1973, is the fifth summary in a series based on FPC Form 67. 1/ For purposes of this publication Form 67 information is supplemented with plant-by-plant annual generation and plant heat rate data from FPC Form 1. 2/

The first summary (FPC publication number S-229), published in February of 1973, covered the calendar year 1969. The second summary (FPC S-233), published in July 1973, covered 1970. The third summary (FPC S-239), published in June 1974, covered 1971. The fourth summary (FPC S-246), published in March 1975, covered 1972. This series of summaries represents an effort by the Commission to gather and disseminate annually reliable and complete information about the nationwide impact of steam-electric power plants on the environment. The methodology employed in the preparation of this and the earlier summaries is explained in detail in the 1969 Summary Report.

All the summary reports in this series may be obtained by mail from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402, or they may be purchased over the counter at the GPO bookstore. The prices of the publication are:

	By Mail	Over the Counter
S-229 (1969)	$2.60	$2.25
S-233 (1970)	$1.95	$1.95
S-239 (1971)	$2.00	$2.00
S-246 (1972)	$2.70	$2.70

Please address all comments and inquiries regarding this summary to:

Section of Fuel and Environmental Analysis
Bureau of Power
Federal Power Commission
Washington, D. C. 20426

1/ A copy of FPC Form No. 67 is included as an appendix to the 1969 Summary, the first in this series.

2/ FPC Form No. 1 is completed annually by electric utilities and deals with the financial and generating aspects of their operations.

DISCUSSION OF FORM 67 DATA

This discussion is based on data contained in the Summary for 1973 and, where appropriate, it includes a comparison with data presented in previous summaries. 3/ The comparison serves as a basis for noting significant differences and possible trends in the quantities measured.

As in the earlier issues, the 1973 data is displayed in 18 summary tables (nine pairs): ten tables (five pairs) summarize air quality data and eight tables (four pairs) summarize water quality data, respectively. The first in each pair of air quality tables gives state totals and a national total for each quantity measured. The second table in each pair presents the totals for each Air Quality Control Region designated by the Environmental Protection Agency. Similarly, the first in each pair of water quality tables gives state and national totals, while the second in each pair presents the totals for each Water Resource Region.

Also included are: 1) 154-page detailed table with individual plant data for each of the 769 plants covered by this report; 2) An alphabetical listing of the plants (Appendix 1); 3) A map showing each Air Quality Control Region (Appendix 2); 4) A map showing the Water Resource Regions (Appendix 3); and 5) A map outlining the major Geographic Divisions of the United States (Appendix 4).

a. Growth of the Industry

To keep pace with the nation's growing demand for electric energy, steam-electric plants in 1973 consumed more primary energy, generated more electricity and required more cooling capacity than ever before. From 1972 to 1973 generating capacity reported on Form 67 increased 9.7 percent, from 309,861 to 340,001 megawatts. During the same period the

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3/ The Summary for 1969 was the first in the series. It included a detailed explanation of the methodology employed in calculating emissions of particulates, sulfur dioxide, and oxides of nitrogen along with other data editing and computational routines. The explanation is not repeated here.

generation of electricity by steam-electric plants reporting on Form 67, both fossil-fired and nuclear, increased from 1,412 to 1,536 million megawatt-hours, 4/ a rise of 8.8 percent. The following table shows the total installed capacity and the total net generation by steam-electric plants reporting on Form 67 for each of the past five years:

Year	Total Installed Capacity (MW)	Total Net Generation (Million MWH)
1969	243,029.7	1,142.0
1970	263,255.8	1,230.4
1971	283,410.5	1,293.7
1972	309,860.6	1,411.9
1973	340,001.3	1,536.4

To meet this increased demand for electric power these plants consumed fossil fuels equivalent to 15.4 quadrillion Btu's (15×10^{15}), an increase of 6.9 percent from the 14.4 quadrillion Btu's consumed in 1972. The following tabulation gives a yearly break-down of the total energy consumed and the percent energy supplied by each type of fossil fuel during the past five years:

	Total Btu (10^{15})				Percent of Total Btu		
	Coal	Oil	Gas	Total	Coal	Oil	Gas
1969	7.065	1.577	3.429	12.071	58.5	13.1	28.4
1970	7.098	2.008	3.820	12.926	54.9	15.5	29.6
1971	7.244	2.328	3.841	13.413	54.0	17.4	28.6
1972	7.794	2.816	3.811	14.421	53.9	19.6	26.5
1973	8.583	3.270	3.517	15.370	55.8	21.3	22.9

The table shows that between 1972 and 1973 electric utilities continued to increase in terms of Btu, their use of oil (up 16.1 percent) and coal (up 10.1 percent), while decreasing the use of gas (down 7.7 percent). Both oil and coal increased their shares in the 1973 electric utility market at the expense of natural gas. Consequently, the relative position of coal increased for the first time since the

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4/ Data obtained on FPC Form 4 for electric utility plants in the 50 states, but excluding Puerto Rico and the Virgin Islands, showed electric power generation in steam-electric plants to be 1546.5 billion kilowatt-hours (FPC News Release No. 21450, June 5, 1975). Responses to FPC Form 67 cover an estimated 98.7 percent of the power generation and a corresponding share of the fossil fuel consumption in steam-electric units located in a geographic area comparable to the FPC Form 4 coverage.

collection of Form 67 data began. In 1973 steam-electric plants consumed 386.9 million tons of coal, a rise of 10.9 percent, or 38.3 million tons, above the 1972 level. During that period coal consumption increased in eight of the nine major geographic regions of the country, declining only in the New England region. In terms of absolute quantity the greatest increases occurred in the East North Central and East South Central regions, up by 10.8 and 6.8 million tons, respectively. In the Middle Atlantic region, where coal use had declined annually since 1970, utilities increased it's use by almost 5.0 million tons, while consumption in the South Atlantic region rose by 4.4 million tons. The use of coal by utilities west of the Mississippi River continued to increase as consumption in the Mountian and Pacific regions rose by 21.8 and 86.9 percent, respectively. Also, consumption of lignite by utilities in Texas increased to 4.7 million tons, more than doubling it's 1972 use.

Despite the oil embargo imposed by the Organization of Petroleum Exporting Countries (OPEC) during the last quarter of the year, total oil consumption by reporting utilities in 1973 increased to 509.1 million barrels, a rise of 17.5 percent over 1972. However, for the first time in the five years surveyed, the use of oil in the Middle Atlantic region declined (down 0.1 percent), while consumption in the New England region remained essentially unchanged. The greatest increases in oil use took place in the three western regions, i. e., the West South Central (up 178.8 percent), the Mountian (up 158.4 percent) and the Pacific region (up 84.0 percent). In addition, oil consumption in the East North Central and West North Central regions increased by 22.0 and 9.0 percent, respectively, while it's use in the South Atlantic region rose by 11.2 percent.

Between 1972 and 1973 the total quantity of gas used to raise steam in utility boilers (reporting on Form 67) fell from 3,707.3 to 3,421.5 billion cubic feet, a drop of 7.7 percent. In that period gas consumption declined in eight of the nine geographic regions, increasing only in the West North Central region. (All of the increase is due to greater coverage in 1973 of plants operating in that region). The use of gas continued to decrease in East Coast regions, i. e., New England (down 10.1 percent), Middle Atlantic (down 13.2 percent), and South Atlantic region (down 7.6 percent). In the Pacific region gas use fell by 151.3 billion cubic feet, or 25.1 percent. It also declined for the first time in the West South Central (down 1.3 percent) and in the Mountain region (down 8.0 percent). The various trends are reflected in the following tables:

REGIONAL CHANGES IN COAL CONSUMPTION FROM 1972 TO 1973 AND PERCENT CHANGE

Geographic Region*	1972 Consumption (1000 Tons)	1973 Consumption (1000 Tons)	Percent Increase (+) Or Decrease (-)
New England	1,237.4	1,078.2	- 12.9
Middle Atlantic	42,242.9	46,993.3	+ 11.2
East North Central	125,203.6	135,959.4	+ 8.6
West North Central	28,854.0	31,623.2	+ 9.6
South Atlantic	71,467.8	75,860.1	+ 6.1
East South Central	56,248.7	63,060.9	+ 12.1
West South Central	1,791.0	4,733.3	+ 164.3
Mountain	19,646.7	23,928.4	+ 21.8
Pacific	2,002.0	3,741.0	+ 86.9
U. S. TOTALS	348,694.1	386,977.8	+ 10.9

REGIONAL CHANGES IN OIL CONSUMPTION FROM 1972 TO 1973 AND PERCENT CHANGE

Geographic Region	1972 Consumption (1000 Bbls)	1973 Consumption (1000 Bbls)	Percent Increase (+) Or Decrease (-)
New England	82,199.9	82,930.0	+ 0.9
Middle Atlantic	144,871.7	144,692.4	- 0.1
East North Central	19,121.8	23,337.9	+ 22.0
West North Central	3,158.9	3,442.9	+ 9.0
South Atlantic	127,198.9	141,382.4	+ 11.2
East South Central	4,098.9	6,513.8	+ 58.9
West South Central	7,472.8	20,847.0	+178.9
Mountain	3,478.4	8,989.3	+158.4
Pacific	41,820.3	76,965.5	+ 84.0
U. S. TOTALS	433,421.6	509,101.2	+ 17.5

* The states included in each geographic region are: New England - CT, ME, MA, NH, RI, VT; Middle Atlantic - NJ, NY, PA; East North Central - IL, IN, MI, OH, WI,; West North Central - IA, KS, MN, MO, NE, ND, SD; South Atlantic - DE, DC, FL, GA, MD, NC, SC, VA, WV; East South Central - AL, KY, MS, TN; West South Central - AR, LA, OK, TX; Mountain - AZ, CO, ID, MT, NV, NM, UT, WY; Pacific - CA, OR, WA.

REGIONAL CHANGES IN GAS CONSUMPTION
FROM 1972 TO 1973 AND PERCENT CHANGE

Geographic Region	1972 Consumption (1000 Mcf)	1973 Consumption (1000 Mcf)	Percent Increase (+) Or Decrease (-)
New England	6,750.7	6,070.2	- 10.1
Middle Atlantic	74,579.6	64,728.9	- 13.2
East North Central	156,859.6	105,593.6	- 32.7
West North Central	320,274.3	352,816.6 5/	+ 10.2
South Atlantic	219,239.3	202,644.9	- 7.6
East South Central	119,312.9	73,749.3	- 38.2
West South Central	1,981,970.7	1,957,067.4	- 1.3
Mountain	225,791.1	207,631.7	- 8.0
Pacific	602,500.4	451,217.3	- 25.1
U. S. TOTALS	3,707,278.6	3,421,519.9	- 7.7

b. Fuel Quality

After increasing slightly in 1972, the average heating value of coal fell to an all time low in 1973, while, as the following table shows, the steady decline in the average heating value of oil continued:

Year	Coal, Btu/Lb.	Oil, Btu/Gal.	Gas, Btu/Cu. Ft.
1969	11,628	148,727	1,033
1970	11,276	147,991	1,031
1971	11,169	147,017	1,030
1972	11,176	146,285	1,028
1973	11,090	145,772	1,028

The average ash content of coal declined again in 1973, and, as in each of the past four years, the average sulfur content of coal and oil, on a percent-by-weight basis, dropped. These changes are shown in the following table:

5/ Gas consumption in the West North Central region includes 36,600 thousand Mcf consumed by utilities that operated in previous years but reported on Form 67 for the first time in 1973.

Year	Coal, % Ash	Coal, % Sulfur	Oil, % Sulfur
1969	12.53	2.59	1.68
1970	13.72	2.58	1.52
1971	13.85	2.47	1.28
1972	13.41	2.39	1.07
1973	13.29	2.32	0.98

When expressed in pounds of sulfur dioxide per million Btu of gross heat input, the terms in which an increasing number of states are specifying their 1975 sulfur emissions regulations, the average sulfur level of coal has not significantly improved during the past five years; however, as the following tabulation shows, consistent progress has been made in lowering the average sulfur level of oil:

Pounds of SO_2 Per million Btu

	Coal	Oil
1969	4.46	1.80
1970	4.58	1.64
1971	4.42	1.40
1972	4.28	1.18
1973	4.27	1.08

In 1973 steam-electric plants having a capacity of 25 megawatts and greater purchased 374.8 million tons of coal and 505.4 million barrels of oil. 6/ A comparison of the sulfur content of every shipment of coal made to each power plant with the sulfur regulation for the same plant specified in the 1975 State Implementation Plans (SIP's) 7/ reveals that 216.4 million tons, or 56.2 percent of the total coal delivered in 1973, would be in violation of sulfur regulations if coal of the same quality was consumed after July 1975. However, through blending of non-conforming coal with conforming coal, an additional 22.9 million tons could be made to meet SIP limitations. Still, about 52 percent, or 193.5 million tons of the 374.8 million delivered to power plants, would not meet 1975 sulfur regulations.

6/ Based on data filed with the Federal Power Commission on FPC Form 423, a monthly questionnaire on which utilities report the cost and quality of each fuel shipment made to their steam-electric plants.

7/ The SIP sulfur regulations for individual power plants were supplied by the Environmental Protection Agency.

A similar shipment-by-shipment comparison of the sulfur content of heavy oil 8/ delivered to individual steam plants with the 1975 SIP sulfur regulation shows that 151.1 million barrels, or nearly 30 percent of total oil deliveries, would violate SIP limitations if oil of the same quality was consumed after July 1975. If plants blended a part of the non-conforming oil with the conforming oil an additional 14.7 million barrels could be made useable under the 1975 sulfur regulations. Still, 136.3 million barrels of oil, or nearly 27 percent of all heavy oil delivered to steam plants in 1973, would be left unuseable under 1975 sulfur regulations.

The following tables show, on a regional basis, the quantities of coal and oil delivered to utilities in 1973 that would, or would not, meet 1975 sulfur regulations:

REGIONAL SUMMARY OF COAL DELIVERED 1/ TO STEAM ELECTRIC PLANTS, 1973, CONFORMING AND NON-CONFORMING WITH 1975 SULFUR REGULATIONS
(THOUSAND TONS)

Geographic Region	Total Quantity Delivered	Before Blending		After Blending	
		Quantity Conforming	Quantity Non-conforming	Quantity Conforming	Quantity Non-conforming
New England	1,151.9	1,080.2	71.7	1,080.2	71.7
Middle Atlantic	44,445.9	21,964.6	22,481.3	32,175.2	12,270.7
East North Central	129,799.8	25,503.4	104,296.4	27,792.4	102,007.4
West North Central	34,446.4	29,738.4	4,707.9	30,873.6	3,572.8
South Atlantic	72,464.4	42,877.9	29,586.5	49,777.6	22,686.7
East South Central	60,890.7	16,974.5	43,916.2	19,306.7	41,584.0
West South Central	4,732.0	4,732.0	0.0	4,732.0	0.0
Mountain	23,511.9	12,129.9	11,382.8	12,185.7	11,326.2
Pacific	3,400.0	3,400.0	0.0	3,400.0	0.0
U. S. TOTALS	374,843.0	158,400.2	216,442.8	181,323.4	193,519.5

8/ Including fuel oil #4, #5, #6 and crude oil
1/ Based on data filed by 386 steam plants on FPC Form 423

REGIONAL SUMMARY OF OIL DELIVERED 1/ TO STEAM ELECTRIC PLANTS, 1973, CONFORMING AND NON-CONFORMING WITH 1975 SULFUR REGULATIONS
(THOUSAND BARRELS)

	Total Quantity Delivered	Before Blending		After Blending	
		Quantity Conforming	Quantity Non-conforming	Quantity Conforming	Quantity Non-conforming
New England	83,641.1	68,603.4	15,037.7	69,750.8	13,890.3
Middle Atlantic	152,825.8	101,150.1	51,675.7	102,967.4	49,858.4
East North Central	19,353.1	11,378.7	7,974.4	12,227.4	7,125.8
West North Central	3,176.8	2,658.4	518.4	2,658.4	518.4
South Atlantic	137,964.7	71,092.5	66,867.7	78,641.0	59,319.2
East South Central	2,238.0	2,238.0	0.0	2,238.0	0.0
West South Central	16,417.9	13,706.4	2,715.9	14,357.4	2,064.9
Mountain	6,391.5	4,241.7	2,149.8	5,280.3	1,111.2
Pacific	83,424.9	79,314.3	4,110.6	80,970.8	2,454.1
U. S. TOTALS	505,433.8	354,383.5	151,050.2	369,091.5	136,342.3

c. Air Pollution Control

In 1973 the total reported air quality control expenses reached $104.6 million, an increase of $20.0 million, or 23.7 percent over 1972. On a national basis the 1973 expenses amounted to about 0.068 mills per kilowatt-hour, while similiar expenditures last year amounted to 0.060 mills per kilowatt-hour. These expenses did not include the incremental costs of low-sulfur fuel purchases for meeting air quality regulations.

The following tabulation gives the yearly emissions of fly ash, sulfur dioxide and nitrogen oxides during the past five years, in absolute quantities and per thousand megawatt-hours:

	FLY ASH		SULFUR DIOXIDE		NITROGEN OXIDES	
	Thousand Tons	Tons Per Thousand Megawatt-Hrs	Thousand Tons	Tons Per Thousand Megawatt-Hrs	Thousand Tons	Tons Per Thousand Megawatt-Hrs
1969	4,293	3.76	16,826	14.73	4,832	4.23
1970	4,250	3.48	17,521	14.24	5,189	4.22
1971	3,830	2.96	17,237	13.32	5,392	4.17
1972	3,608	2.55	17,781	12.59	5,887	4.17
1973	3,338	2.17	19,258	12.53	6,356	4.14

1/ Based on data filed by 325 steam plants on FPC Form 423

Particulates:

From 1972 to 1973 the ash content of coal burned by steam-electric plants increased from 46.8 million tons to 51.4 million tons, a rise of 9.8 percent, while the calculated emissions of particulate matter decreased from 3,608 to 3,338 thousand tons, a drop of 8.1 percent. This reduction in particulate emissions was primarily the result of installation of new precipitator units and the up-grading of older units. The total installed cost of all precipitators reached $912.2 million in 1973, an increase of $241.0 million, or nearly 36 percent, above the cost reported for 1972.

Sulfur Oxides:

The total sulfur content of coal and oil consumed by steam-electric plants rose from 9.16 million tons in 1972 to nearly 9.9 million tons in 1973. Correspondingly, the calculated emissions of sulfur oxides increased from 17.8 to 19.3 million tons, an increase of about 8 percent. In terms of tons emitted per thousand megawatt-hours generated, sulfur oxide declined slightly from 12.59 to 12.53. In 1973, the installed cost of all types of flue gas desulfurization systems reached $44.9 million, an increase of $17.4 million, or 63.4 percent, over the $27.1 million reported in 1972. The additional $17.4 million expenditure accounted for the installation of four new units in 1973: a magnesium oxide regenerative scrubber installed at Potomac Electric Power's Dickerson plant, at a cost of $6.3 million; a wet limestone scrubber installed for $6.6 million at Arizonia Public Service Company's Cholla plant; a wet lime scrubber installed for $3.8 million at Louisville Gas and Electric's Paddy's Run plant, and a dry limestone injection system installed for $800 thousand at Key West Utility's Stock Island plant. The last three systems are non-regenerative. Like the five units installed prior to 1973 these four additional flue gas desulfurization systems operated intermittently or at various test stages during the year, and had little effect on national emission levels of sulfur oxides. The following table shows the reported design efficiency and the installed cost of each flue gas desulfurization system installed as of 1973.

Utility (Plant)	Year FGD Placed In Service	FGD Capacity Serviced (MW)	Fuel Burned	Design SO_2 Removal Efficiency (%) 1/	Installed Cost ($1000)	Type of FGD System
Dairyland Power Co. (Alma)	1971	81.6	Coal	70.0	300	Dry Lime Injection
Illinois Power Co. (Wood River)	1972	112.5	Coal	85.0	6,800	Catalytic Oxidation
Commonwealth Edison (Will County)	1972	167.0	Coal	76.0	15,000	Wet Limestone Scrubber
Boston Edison (Mystic)	1972	137.5	Residual Oil	90.0	4,000	Magnesium Oxide Scrubber 2/
Potomac Electric Power Co. (Dickerson)	1973	100.0	Coal	90.0	6,307	Magnesium Oxide Scruber 2/
Louisville Gas & Electric (Paddy's Run)	1973	65.0	Coal	85.0	3,760	Wet Lime Scrubber
Key West Utility Board (Stock Island)	1973	37.0	Residual Oil	85.0	800	Dry Limestone Injection
Arizona Public Service Co. (Cholla)	1973	57.5	Coal	80.0	6,553	Wet Limestone Scrubber

1/ To be distinquished from total system efficiency which includes system availability in addition to SO_2 removal efficiency

2/ Regentative type which produces a saleable product

Oxides of Nitrogen:

Emissions of nitrogen oxides are calculated as a function of the fuel quantity and type and, in the case of coal, also of the boiler design. (A more detailed description of the computational methodology is given in the 1969 Summary). In terms of tons per thousand megawatt-hours, emissions of nitrogen oxides have remained essentially unchanged over the five years surveyed, while, during the same period, calculated emissions increased steadily. Between 1972 and 1973, the total calculated emissions of nitrogen oxides increased from 5,887 to 6,356 thousand tons. In recent years progress has been made in reducing nitrogen oxide emissions by controlling the combustion operating conditions in utility boilers - a technique employed primarily on units installed after 1970. The methodology used to compute nitrogen oxide emissions in this report does not take into account the combustion practices used to reduce nitrogen oxide emission from individual utility boilers. Consequently, the emissions of nitrogen oxides calculated in this summary should be viewed as an approximation.

d. Water Pollution Control

The operation of steam-electric plants involves the disposal of large quantities of waste heat. The amount of heat to be disposed of depends upon the type and efficiency of the plant. Although the most efficient plants achieve efficiencies of about 40 percent, the average for all steam-electric plants in 1973 was about 33 percent (heat rate of 10,389 Btu). In the operation of a plant, some heat is lost within the plant and through the stack. On the average, however, more than one-half of the heat input is discharged to the cooling water in the condensing process. The heat added to the water must then be dissipated by some cooling method.

The following tabulations show the extent to which various types of cooling were used by the 769 plants for which information on cooling systems was obtained by the 1973 Form 67 reports relating to installed capacities totaling 339,967 megawatts. For comparison, corresponding percentages are shown for the 695 plants with capacities totaling 309,836 megawatts as reported in 1972, the 689 plants with capacities totaling 283,410 megawatts as reported for 1971, the 681 plants with capacities totaling 261,713 megawatts as reported for 1970, and the 651 plants with capacities totaling 242,927 megawatts as reported for 1969.

Type of Cooling	Percent of Total Number of Plants				
	1969	1970	1971	1972	1973
Once-through, fresh	49.8	49.4	48.1	47.2	44.0
Once-through, saline	18.9	18.5	18.1	17.3	16.4
Cooling ponds	5.4	5.7	6.0	6.3	6.0
Cooling towers	17.2	17.5	18.1	18.6	21.5
Combined systems	8.7	8.9	9.7	10.6	12.1
TOTAL	100.0	100.0	100.0	100.0	100.0

Type of Cooling	Percent of Total Installed Capacity				
	1969	1970	1971	1972	1973
Once-through, fresh	50.5	50.1	47.1	45.4	43.1
Once-through, saline	23.5	22.8	21.5	20.9	20.1
Cooling ponds	5.9	6.7	7.3	8.0	8.6
Cooling towers	10.9	11.2	12.9	13.4	14.4
Combined systems	9.2	9.2	10.6	12.3	13.8
TOTAL	100.0	100.0	100.0	100.0	100.0

As indicated, most of the plants providing the major share of steam-electric capacity employed once-through cooling using either fresh or saline water. During the 5-year period, however, there was an increasing trend away from once-through cooling toward the use of cooling ponds, cooling towers, and combined systems. The latter types of cooling facilities (ponds, towers, and combined systems) were used by 26.0 percent of the total installed capacity reported for 1969, compared with 36.8 percent in 1973. Essentially all towers were of the evaporative type, and little use has been made so far of nonevaporative (dry) cooling towers. Implementation of recent State and Federal water pollution control legislation will accelerate the use of cooling ponds and towers.

The total average rate of withdrawal of fresh water for cooling purposes in 1973 was reported to be 195,370 cubic feet per second. This rate is equivalent to about eleven percent of the average annual runoff of all streams in the conterminous United States. Most of the water withdrawn is returned to the source water bodies. The total average rate of saline water withdrawals in 1973 was reported to be 77,217 cubic feet per second. The following tabulation shows the total reported withdrawal rates for 1969, 1970, 1971, 1972, and 1973.

	Rates of Water Withdrawal (Cfs)				
	1969	1970	1971	1972	1973
Fresh water	165,232	172,005	172,392	182,558	195,370
Saline water	68,391	73,439	72,564	75,136	77,217

Plant rates of consumption of cooling water, as shown on line 64 of the Individual Plant Data reports, include reported amounts and also, for plants using once-through cooling, calculated amounts representing the estimated losses due to induced evaporation in receiving water bodies. The calculated amounts were included because the response for water consumption of plants using once-through cooling was incomplete in come instances. The calculated amounts were determined by multiplying the plant withdrawals by .0086 (derived in footnote 14 of table 10). However, the various totals shown in the State and Regional summary tables 7-A and 7-B include only the reported amounts for all types of cooling. From these tables, the total national average rate of fresh water consumption for 1973 was 1,900 cubic feet per second. If this total is revised to include the greater of the reported or calculated consumption rates, the total national rate of fresh water consumption becomes 3,152 cubic feet per second. The following tabulation shows for 1969, 1970, 1971, 1972, and 1973, the total reported rates of fresh water consumption and the total rates of fresh water consumption modified to include calculated amounts:

	Rates of Consumption of Fresh Water (Cfs)				
	1969	1970	1971	1972	1973
Reported amount	1,058	881	1,267	2,198	1,900
Combined reported and calculated amount	1,933	1,830	2,129	2,843	3,152

	Consumption as a Percent of Withdrawal (fresh water)				
	1969	1970	1971	1972	1973
Combined reported and calculated amount	1.17	1.06	1.23	1.56	1.61

The principal chemical additives reported for cooling water treatment were phosphate, lime, alum, and chlorine, with the latter being used in the largest amounts. The principal use of the additives is to prevent the fouling of condenser tubes. Phosphate, caustic soda, lime, alum, and chlorine were used for boiler water treatment, with caustic soda being used in the largest amounts.

The total reported capital cost of cooling water facilities in 1973, as shown in the State and Regional summary tables 9-A and 9-B, was $1,483 million, an increase of $148 million (11.1 percent) over 1972, an increase of $277 million (23.0 percent) over 1971, an increase of $400 million (36.9 percent) over 1970, and an increase of $511 million (52.5 percent) over 1969.

The unit costs, capital cost per kilowatt of plant capacity, of the various types of cooling systems in 1973 were $4.39 for once-through cooling facilities using fresh water, $5.38 for once-through cooling facilities using saline water, $5.29 for cooling ponds, and $6.95 for cooling towers. The total operating expenses for cooling water facilities in 1973, were reported to be $39.2 million for operation and maintenance and $8.0 million for chemical additives, as shown in the State and Regional summary tables 9-A and 9-B. Assuming fixed charges of 15 percent of the capital investment, and adding annual operation and maintenance and chemical additive costs, the resulting average unit cost is 0.21 mills per kilowatt-hour of plant generation for cooling facilities.

TABLE 1-A

FUEL CONSUMPTION AND QUALITY, BY REGION AND STATE, 1973

LINE NO	GEOGRAPHIC REGION AND STATE	COAL				OIL			GAS		LINE NO
			AVERAGE				AVERAGE			AVERAGE	
		CONSUMPTION (1000 TONS)	HEATING VALUE (BTU/LB.)	SULFUR (%)	ASH (%)	CONSUMPTION (1000 BBLS)	HEATING VALUE (BTU/GAL.)	SULFUR (%)	CONSUMPTION (1000 MCF)	HEATING VALUE (BTU/CF.)	
	NEW ENGLAND										
1	CONNECTICUT	20.28	11,746	2.25	15.00	29,318.47	144,578	.43	.24	1,000	1
2	MAINE					4,703.80	148,715	2.14			2
3	MASSACHUSETTS	12.90	11,835	1.30	13.50	44,853.75	146,191	.75	6,069.99	1,002	3
4	NEW HAMPSHIRE	1,045.00	13,443	2.08	7.09	1,714.00	148,093	2.15			4
5	RHODE ISLAND					2,340.00	146,141	.91			5
6	VERMONT										6
7	TOTALS	1,078.18	13,392	2.07	7.32	82,930.02	145,802	.75	6,070.23	1,002	7
	MIDDLE ATLANTIC										
8	NEW JERSEY	2,379.39	12,444	1.27	11.32	42,339.39	143,080	.43	17,767.05	1,030	8
9	NEW YORK	5,730.08	12,232	2.13	12.44	83,365.54	145,656	.96	46,932.61	1,028	9
10	PENNSYLVANIA	38,883.82	11,960	2.15	15.63	18,987.48	142,794	.44	29.30	1,050	10
11	TOTALS	46,993.29	12,018	2.11	15.02	144,692.41	144,527	.74	64,728.96	1,029	11
	EAST NORTH CENTRAL										
12	ILLINOIS	32,850.21	10,267	2.71	11.14	8,320.55	147,298	.98	23,965.14	1,024	12
13	INDIANA	29,209.49	10,811	2.96	11.15	833.28	137,440	.17	6,487.13	1,005	13
14	MICHIGAN	20,760.40	11,852	2.71	12.65	11,838.07	142,993	.89	47,243.82	902	14
15	OHIO	43,008.16	11,282	3.09	15.08	1,679.50	147,428	.93	9,200.76	952	15
16	WISCONSIN	10,131.11	11,458	2.81	11.94	666.47	141,868	1.49	18,696.70	1,016	16
17	TOTALS	135,959.37	11,036	2.89	12.68	23,337.87	144,617	.91	105,593.55	961	17
	WEST NORTH CENTRAL										
18	IOWA	5,356.70	10,454	2.30	10.62	69.78	137,399	.22	53,139.07	1,003	18
19	KANSAS	777.98	11,125	3.95	17.15	731.85	147,461	1.52	154,480.39	996	19
20	MINNESOTA	6,668.71	9,383	1.73	10.32	1,116.98	147,231	2.49	46,598.06	995	20
21	MISSOURI	12,844.53	10,926	3.17	13.22	1,216.81	145,246	1.38	49,592.50	978	21
22	NEBRASKA	1,336.65	11,157	1.79	9.83	116.66	149,587	.87	46,424.12	981	22
23	NORTH DAKOTA	4,453.40	6,723	.71	8.60	28.28	141,181	.21			23
24	SOUTH DAKOTA	185.20	8,297	.55	6.23	162.49	151,785	.70	2,582.49	998	24
25	TOTALS	31,623.17	9,928	2.32	11.43	3,442.85	146,624	1.69	352,816.63	993	25
	SOUTH ATLANTIC										
26	DELAWARE	985.37	12,482	2.50	9.79	6,567.00	141,192	.98	4,927.10	1,029	26
27	DISTRICT OF COLUMBIA	259.88	13,106	.90	9.01	5,306.10	146,327	.89			27
28	FLORIDA	6,640.80	11,442	3.10	11.24	67,573.57	147,177	1.52	146,732.95	1,018	28
29	GEORGIA	11,016.40	11,770	2.14	10.89	3,679.00	147,502	2.12	29,940.80	1,030	29
30	MARYLAND	3,878.30	12,479	1.48	11.90	24,228.65	146,829	1.10			30
31	NORTH CAROLINA	19,890.11	12,073	1.07	12.45	5,506.32	146,103	1.75	1,835.24	1,032	31
32	SOUTH CAROLINA	5,470.72	12,031	1.30	12.90	3,444.18	147,501	1.87	17,004.85	1,029	32
33	VIRGINIA	5,006.03	12,258	.95	13.18	24,478.02	148,480	2.23	1,814.50	1,065	33
34	WEST VIRGINIA	22,712.50	11,761	2.19	14.63	599.51	137,501	.10	389.45	615	34
35	TOTALS	75,860.11	11,919	1.79	12.77	141,382.35	146,967	1.55	202,644.89	1,021	35
	EAST SOUTH CENTRAL										
36	ALABAMA	18,690.03	11,554	2.40	14.45	309.60	138,201	.61	2,390.68	1,034	36
37	KENTUCKY	22,302.95	10,838	3.14	15.25	235.02	133,119	.14	9,320.70	1,024	37
38	MISSISSIPPI	1,192.40	11,888	2.70	10.86	5,774.98	143,727	.97	50,878.68	1,029	38
39	TENNESSEE	20,875.50	10,877	2.81	16.20	194.18	137,657	.25	11,159.24	1,056	39
40	TOTALS	63,060.88	11,083	2.80	15.25	6,513.78	142,901	.90	73,749.30	1,033	40
	WEST SOUTH CENTRAL										
41	ARKANSAS					7,138.06	150,712	.78	48,506.82	1,005	41
42	LOUISIANA					7,625.66	142,495	.60	396,634.98	1,059	42
43	OKLAHOMA	2.10	11,813	1.87	10.71	55.37	144,169	.95	254,955.92	1,040	43
44	TEXAS	4,731.20	7,000	.60	10.40	6,027.91	144,659	.70	1,256,969.66	1,022	44
45	TOTALS	4,733.30	7,002	.60	10.40	20,847.00	145,939	.69	1,957,067.38	1,031	45
	MOUNTAIN										
46	ARIZONA	469.20	10,314	.43	9.53	6,942.65	144,436	.73	45,204.30	1,061	46
47	COLORADO	4,465.73	10,597	.58	8.90	502.18	149,026	.78	54,730.32	919	47
48	IDAHO										48
49	MONTANA	891.20	7,875	.64	8.27	126.60	145,219	1.25	878.70	1,172	49
50	NEVADA	3,878.53	12,308	.43	9.60	285.95	149,784	.51	39,574.58	1,069	50
51	NEW MEXICO	7,487.70	8,923	.63	21.75	764.63	148,335	1.24	63,464.15	1,038	51
52	UTAH	966.37	12,077	.52	9.04	338.38	146,408	.35	3,779.68	944	52
53	WYOMING	5,769.70	8,360	.52	8.16	28.93	138,828	.36	.01	832	53
54	TOTALS	23,928.43	9,764	.55	12.85	8,989.32	145,262	.76	207,631.74	1,016	54
	PACIFIC										
55	CALIFORNIA					76,332.52	146,056	.44	448,798.13	1,061	55
56	OREGON					112.60	135,163	.14	2,419.12	1,033	56
57	WASHINGTON	3,741.00	7,552	.49	14.88	520.40	150,295	1.38			57
58	TOTALS	3,741.00	7,552	.49	14.88	76,965.52	146,069	.44	451,217.25	1,061	58
	NON-CONTIGUOUS U.S.										
59	ALASKA										59
60	HAWAII					7,859.00	149,098	1.03			60
61	PUERTO RICO					17,128.10	145,974	2.32			61
62	VIRGIN ISLANDS										62
63	TOTALS					24,987.10	146,956	1.91			63
64	U.S. TOTALS	386,977.73	11,090	2.32	13.29	534,088.22	145,772	.98	3,421,519.93	1,028	64

TABLE 1-B

FUEL CONSUMPTION AND QUALITY, BY AIR QUALITY CONTROL REGION, 1973

AQCR NO	AIR QUALITY CONTROL REGION	COAL				OIL			GAS		AQCR NO
			AVERAGE				AVERAGE			AVERAGE	
		CONSUMPTION (1000 TONS)	HEATING VALUE (BTU/LB.)	SULFUR (%)	ASH (%)	CONSUMPTION (1000 BBLS)	HEATING VALUE (BTU/GAL.)	SULFUR (%)	CONSUMPTION (1000 MCF)	HEATING VALUE (BTU/CF.)	
1	ALABAMA AND TOMBIGBEE RIVERS	135.60	11,788	1.07	15.19	.61	130,500	.40			1
2	COLUMBUS-PHENIX CITY										2
3	EAST ALABAMA	319.00	11,905	1.99	13.14	2.90	137,396	.70	836.40	1,029	3
4	METROPOLITAN BIRMINGHAM	7,554.00	11,686	1.26	14.59	128.50	138,493	.66			4
5	MOBILE-PENSAC.-PAN. CITY-SO MISS	7,419.40	11,909	2.57	11.43	5,827.76	143,304	.95	49,590.14	1,028	5
6	SOUTHEAST ALABAMA	3.53	11,444	1.00	16.53				978.28	1,029	6
7	TENN. RIV. VALLEY-CUMBERLAND MTS	7,135.80	11,177	3.69	15.64	41.09	138,513	.13			7
8	COOK INLET										8
9	NORTHERN ALASKA										9
10	SOUTH CENTRAL ALASKA										10
11	SOUTHEASTERN ALASKA										11
12	ARIZONA-NEW MEX. SOUTHERN BORDER					159.57	137,731	.42	7,576.95	1,026	12
13	CLARK-MOHAVE	3,878.53	12,308	.43	9.60	307.45	149,555	.60	25,115.58	1,079	13
14	FOUR CORNERS	7,956.90	9,005	.62	21.03	1.90	135,718	.10	3,234.30	1,099	14
15	PHOENIX-TUCSON					6,679.08	144,510	.73	37,866.93	1,069	15
16	CENTRAL ARKANSAS					2,380.69	151,359	.75	22,879.46	1,005	16
17	METROPOLITAN FORT SMITH										17
18	METROPOLITAN MEMPHIS	1,634.50	11,058	3.12	11.48	2.10	139,000	.40	11,159.24	1,056	18
19	MONROE-EL DORADO					121.08	141,162	.31	32,298.69	1,010	19
20	NORTHEAST ARKANSAS					4,309.17	150,456	.76	15,301.75	1,014	20
21	NORTHWEST ARKANSAS					162.60	153,006	2.02	726.00	1,013	21
22	SHREVEPORT-TEXARKANA-TYLER					655.75	149,369	.61	133,614.93	1,004	22
23	GREAT BASIN VALLEY										23
24	METROPOLITAN LOS ANGELES					61,550.08	145,487	.44	151,057.22	1,052	24
25	NORTH CENTRAL COAST					2,708.85	147,142	.50	65,088.84	1,083	25
26	NORTH COAST					11.45	160,262	1.50	3,384.69	1,050	26
27	NORTHEAST PLATEAU										27
28	SACRAMENTO VALLEY					8,274.00	148,259	.37	24,713.00	1,054	28
29	SAN DIEGO					2,711.21	149,990	.50	153,265.60	1,056	29
30	SAN FRANCISCO BAY AREA								59.55	1,084	30
31	SAN JOAQUIN VALLEY					788.48	147,333	.50	35,964.70	1,084	31
32	SOUTH CENTRAL COAST					288.45	152,977	1.18	15,264.53	1,073	32
33	SOUTHEAST DESERT										33
34	COMANCHE					3.58	145,000	.20	1,081.56	1,036	34
35	GRAND MESA	284.02	11,329	.59	11.17	.03	136,317	.19	2,556.65	868	35
36	METROPOLITAN DENVER	3,138.99	10,616	.60	8.14	472.64	149,300	.80	35,014.19	900	36
37	PAWNEE	412.62	9,534	.58	10.89	24.96	141,378	.44	16,077.92	959	37
38	SAN ISABEL										38
39	SAN LUIS										39
40	YAMPA	630.10	10,869	.45	10.34	.97	130,000	.20			40
41	EASTERN CONNECTICUT					5,486.80	144,028	.44			41
42	HARTFORD-NEW HAVEN-SPRINGFIELD	33.18	11,781	1.88	14.42	16,726.71	145,147	.55	4,694.64	1,000	42
43	NEW JERSEY-NEW YORK-CONNECTICUT	1,030.90	12,221	1.16	11.60	109,765.64	144,531	.61	58,798.41	1,029	43
44	NORTHWESTERN CONNECTICUT										44
45	METROPOLITAN PHILADELPHIA	3,440.82	12,929	2.23	9.21	31,503.13	142,692	.51	10,046.85	1,030	45
46	SOUTHERN DELAWARE	816.40	12,133	1.63	11.76	400.00	147,778	.92	182.10	1,000	46
47	NATIONAL CAPITAL	3,466.92	12,437	1.40	11.81	10,609.73	147,191	1.49			47
48	CENTRAL FLORIDA					10,993.56	146,270	1.20	39,743.27	1,025	48
49	JACKSONVILLE-BRUNSWICK	17.00	11,386	1.77	14.77	12,705.11	149,281	1.87	15,693.12	1,057	49
50	SOUTHEAST FLORIDA					21,618.66	145,583	1.00	76,062.58	1,005	50
51	SOUTHWEST FLORIDA					4,948.20	145,997	.99	1,405.10	1,056	51
52	WEST CENTRAL FLORIDA	3,948.30	11,190	3.27	11.30	18,287.30	148,500	2.27	7,923.40	1,053	52
53	AUGUSTA-AIKEN	531.97	12,378	1.69	12.79	1.24	138,560	.13	2,215.46	1,030	53
54	CENTRAL GEORGIA	3,039.00	12,122	1.08	10.83				3,026.00	1,030	54
55	CHATTANOOGA	4,688.00	11,397	3.18	10.22	10.00	140,000	.10			55
56	METROPOLITAN ATLANTA	2,632.00	12,107	1.66	11.01	248.00	140,500	.10	20,986.00	1,030	56
57	NORTHEAST GEORGIA										57
58	SAVANNAH-BEAUFORT	742.81	12,269	1.25	13.26	2,222.54	147,813	2.28	8,141.81	1,029	58
59	SOUTHWEST GEORGIA	565.00	11,519	1.42	15.01	3.70	140,000	.10			59
60	HAWAII (ENTIRE STATE)					7,859.00	149,098	1.03			60
61	EASTERN IDAHO										61
62	EASTERN WASH.-NORTHERN IDAHO										62
63	IDAHO										63
64	METROPOLITAN BOISE	4,904.06	10,503	3.15	9.23	1,227.47	151,282	1.61	5,745.70	1,000	64
65	BURLINGTON-KEOKUK	394.60	10,858	2.90	11.33	520.39	138,263	.20			65
66	EAST CENTRAL										66
67	METROPOLITAN CHICAGO	16,920.09	9,941	1.96	9.79	5,114.30	148,946	.89	12,894.67	1,028	67
68	METROPOLITAN DUBUQUE	882.90	11,015	3.49	11.86	3.06	140,000	.33	2,238.00	999	68
69	METROPOLITAN QUAD CITIES	1,291.01	10,956	2.81	9.98	125.60	137,743	.46	8,815.52	1,029	69
70	METROPOLITAN ST. LOUIS	12,647.10	10,998	2.84	11.16	1,928.02	144,385	1.44	2,191.64	1,048	70
71	NORTH CENTRAL ILLINOIS	1,028.16	10,771	2.99	10.37	140.00	136,220	.10	1,670.50	1,025	71
72	PADUCAH-CAIRO	15,073.81	10,641	3.32	15.49	71.71	137,007	.19			72
73	ROCKFORD-JANESVILLE-BELOIT	637.00	10,998	2.33	11.69	2.00	141,000	.33	4,044.00	1,014	73
74	SOUTHEAST ILLINOIS	1,271.35	11,112	3.34	12.42	145.21	137,301	.18			74
75	WEST CENTRAL ILLINOIS	5,958.10	9,901	4.03	15.38	48.29	138,017	.33	88.90	986	75
76	EAST CENTRAL INDIANA	164.00	11,506	3.00	10.00						76
77	EVANSVILLE-OWENSBORO-HENDERSON	8,525.48	10,919	3.31	11.22	107.17	141,966	.14	2,764.60	1,010	77
78	LOUISVILLE	4,130.60	11,125	3.62	12.76	31.53	137,003	.31	8,837.00	1,025	78
79	METROPOLITAN CINCINNATI	6,231.22	10,824	3.02	15.42	281.01	137,261	.24	7,088.11	1,007	79
80	METROPOLITAN INDIANAPOLIS	2,340.90	11,104	2.52	9.45	45.99	137,065	.29	46.40	1,030	80
81	NORTHEAST INDIANA										81
82	SOUTH BEND-ELKHART-BENTON HARBOR	584.21	10,934	3.24	10.71	470.00	137,264	.10	3,352.50	1,000	82
83	SOUTHERN INDIANA	4,007.00	10,852	3.64	11.69						83
84	WABASH VALLEY	6,885.39	10,666	2.64	12.12	160.59	135,445	.34	244.06	1,000	84

TABLE 1-B

(Contd) - FUEL CONSUMPTION AND QUALITY, BY AIR QUALITY CONTROL REGION, 1973

AQCR NO	AIR QUALITY CONTROL REGION	COAL				OIL			GAS		AQCR NO
		CONSUMPTION (1000 TONS)	AVERAGE HEATING VALUE (BTU/LB.)	AVERAGE SULFUR (%)	AVERAGE ASH (%)	CONSUMPTION (1000 BBLS)	AVERAGE HEATING VALUE (BTU/GAL.)	AVERAGE SULFUR (%)	CONSUMPTION (1000 MCF)	AVERAGE HEATING VALUE (BTU/CF.)	
85	METROPOL. OMAHA-COUNCIL BLUFFS	1,333.20	10,794	1.38	9.11	10.10	137,285	.27	23,501.60	997	85
86	METROPOLITAN SIOUX CITY	992.86	9,981	.60	11.22	12.49	136,000	.10	6,155.52	994	86
87	METROPOLITAN SIOUX FALLS	47.71	9,155	1.08	6.26	162.49	151,785	.70	2,582.49	998	87
88	NORTHEAST IOWA	1,031.96	10,863	2.54	9.05	21.15	137,528	.15	7,627.95	1,012	88
89	NORTH CENTRAL IOWA	40.41	11,801	2.36	9.78				1,294.90	998	89
90	NORTHWEST IOWA	43.36	11,919	2.14	8.36				1,602.92	1,000	90
91	SOUTHEAST IOWA										91
92	SOUTH CENTRAL IOWA	1,071.30	9,886	3.19	13.43	33.11	137,746	.30	24,569.56	997	92
93	SOUTHWEST IOWA										93
94	METROPOLITAN KANSAS CITY	2,376.17	11,206	2.45	10.69	220.31	144,232	1.12	55,097.19	965	94
95	NORTHEAST KANSAS	309.80	12,165	3.90	13.20	305.90	146,760	2.08	33,402.90	1,018	95
96	NORTH CENTRAL KANSAS					35.62	152,367	1.50	4,106.95	958	96
97	NORTHWEST KANSAS					7.79	151,059	1.43	6,572.00	956	97
98	SOUTHEAST KANSAS	310.64	9,843	4.85	23.73	130.51	145,238	1.10	11,318.66	1,027	98
99	SOUTH CENTRAL KANSAS					168.73	147,800	1.20	67,837.82	1,002	99
100	SOUTHWEST KANSAS					83.30	150,393	.77	13,745.60	959	100
101	APPALACHIAN	38.51	11,450	2.03	16.12	1.06	132,000	.02			101
102	BLUEGRASS	2,044.60	11,713	1.67	13.36	35.38	137,989	.16			102
103	HUNTINGTON-ASHL.-PORTSM.-IRONTON	12,919.10	11,411	2.07	14.79	202.20	132,672	.10			103
104	NORTH CENTRAL KENTUCKY										104
105	SOUTH CENTRAL KENTUCKY	795.99	11,435	2.35	15.32	2.34	138,600	.12			105
106	SOUTHERN LOUISIANA-SE TEXAS					7,662.71	142,496	.59	423,918.61	1,055	106
107	ANOROSCOGGIN VALLEY					1,596.60	148,316	2.17			107
108	AROOSTOOK										108
109	OOWN EAST					605.00	148,384	2.24			109
110	METROPOLITAN PORTLAND					2,502.20	149,049	2.10			110
111	NORTHWEST MAINE										111
112	CENTRAL MARYLAND										112
113	CUMBERLAND-KEYSER	2,660.40	11,340	1.86	18.10	275.53	137,025	.10			113
114	EASTERN SHORE					2,284.00	146,000	.90			114
115	METROPOLITAN BALTIMORE	774.26	13,097	.88	9.18	14,252.48	146,274	.85			115
116	SOUTHERN MARYLAND	550.40	12,693	1.78	13.34	7,249.30	148,705	1.71			116
117	BERKSHIRE										117
118	CENTRAL MASSACHUSETTS					131.03	146,661	.93	615.39	1,003	118
119	METROPOLITAN BOSTON					20,163.70	145,333	.64	500.00	1,016	119
120	METROPOLITAN PROVIDENCE					23,424.42	146,901	.83	260.20	1,000	120
121	MERRIMACK VALLEY-SOUTHERN N.H.	1,045.00	13,443	2.08	7.09	1,714.00	148,093	2.15			121
122	CENTRAL MICHIGAN	5,612.60	11,286	3.27	13.78	1,747.00	135,092	.35	2,261.00	1,000	122
123	METROPOLITAN DETROIT-PORT HURON	8,714.92	11,810	2.58	12.85	7,880.19	144,967	1.06	41,961.00	890	123
124	METROPOLITAN TOLEDO	6,773.71	12,306	2.32	11.90	937.64	140,328	.30	1,125.00	540	124
125	SOUTH CENTRAL MICHIGAN	1,087.68	12,249	2.80	10.86	1,416.10	144,934	.99	2,687.80	1,000	125
126	UPPER MICHIGAN	575.80	12,327	1.46	8.15	5.10	135,400	.10	334.02	1,000	126
127	CENTRAL MINNESOTA										127
128	SOUTHEAST MINNESOTA-LA CROSSE	1,577.12	11,107	3.38	20.02	525.53	150,762	2.76	9,805.71	1,000	128
129	DULUTH-SUPERIOR	1,867.39	8,967	1.06	9.49	521.59	142,417	.99	1,744.50	1,000	129
130	METROPOLITAN FARGO-MOORHEAD										130
131	MINNEAPOLIS-ST. PAUL	3,830.86	9,984	2.28	11.65	76.23	140,707	.55	34,833.81	994	131
132	NORTHWEST MINNESOTA	764.87	7,264	.83	6.01	239.03	138,009	3.69	371.00	1,001	132
133	SOUTHWEST MINNESOTA	105.83	9,760	1.21	9.08	.93	138,000	.50	974.31	999	133
134	MISSISSIPPI DELTA	7.60	12,320	2.42	8.06	321.46	153,550	2.43	7,770.02	1,018	134
135	NORTHEAST MISSISSIPPI										135
136	NORTHERN PIEDMONT	866.03	11,963	.92	12.69	6.49	138,000	.20			136
137	NORTHERN MISSOURI	211.14	11,422	2.47	9.63	1.63	138,000	.29	1,040.59	1,050	137
138	SOUTHEAST MISSOURI					33.38	150,924	1.50	628.18	994	138
139	SOUTHWEST MISSOURI	2,669.50	9,836	5.03	22.56	25.79	139,103	.27	9,192.00	1,017	139
140	BILLINGS	586.00	8,582	.67	8.22	126.60	145,219	1.25	835.00	1,179	140
141	GREAT FALLS										141
142	HELENA										142
143	MILES CITY	305.20	6,518	.57	8.38				43.70	1,040	143
144	MISSOULA										144
145	LINCOLN-BEATRICE-FAIRBURY	276.35	11,813	3.02	12.47	10.80	156,294	2.00	8,546.83	998	145
146	NEBRASKA	25.40	11,155	1.75	8.66	95.76	150,129	.81	16,806.79	953	146
147	NEVADA										147
148	NORTHWEST NEVADA					82.50	150,868	.99	17,021.00	1,052	148
149	NEW HAMPSHIRE										149
150	NEW JERSEY	109.64	12,918	1.29	8.79	3,908.16	140,301	.77			150
151	NE PENN.-UPPER DELAWARE VALLEY	2,643.10	12,076	1.46	12.78	1,791.50	144,708	.92	562.00	1,030	151
152	ALBUQUERQUE-MIO RIO GRANDE					307.11	148,843	.90	20,604.58	1,046	152
153	EL PASO-LAS CRUCES-ALAMOGORDO					464.00	148,512	1.48	27,059.00	1,027	153
154	NORTHEASTERN PLAINS										154
155	PECOS-PERMIAN BASIN					10.82	137,716	.54	27,672.69	1,019	155
156	SOUTHWESTERN MTS-AUGUSTINE PLAIN										156
157	UPPER RIO GRANDE VALLEY										157
158	CENTRAL NEW YORK					3,236.00	149,443	2.57			158
159	CHAMPLAIN VALLEY										159
160	GENESEE-FINGER LAKES	1,116.52	12,325	2.02	11.69	1,054.50	148,383	2.02	2.40	538	160
161	HUDSON VALLEY					9,347.00	148,135	1.95	35.00	1,012	161
162	NIAGARA FRONTIER	1,530.00	12,855	2.23	8.12						162
163	SOUTHERN TIER EAST	537.54	10,894	1.84	19.94	13.18	137,648	.36			163
164	SOUTHERN TIER WEST	2,546.02	12,100	2.19	13.77	35.88	138,752	.19			164
165	EASTERN MOUNTAIN	7,542.75	11,894	1.04	13.56	545.98	138,165	.20			165
166	EASTERN PIEDMONT	3,950.30	12,460	1.29	11.07	62.67	139,359	.10			166
167	METROPOLITAN CHARLOTTE	5,341.74	11,964	.89	12.61	342.50	138,503	.20	657.39	1,030	167
168	NORTHERN COASTAL PLAIN										168

TABLE 1-B

(Contd) - FUEL CONSUMPTION AND QUALITY, BY AIR QUALITY CONTROL REGION, 1973

AQCR NO	AIR QUALITY CONTROL REGION	COAL				OIL			GAS		AQCR NO
			AVERAGE				AVERAGE			AVERAGE	
		CONSUMPTION (1000 TONS)	HEATING VALUE (BTU/LB.)	SULFUR (%)	ASH (%)	CONSUMPTION (1000 BBLS)	HEATING VALUE (BTU/GAL.)	SULFUR (%)	CONSUMPTION (1000 MCF)	HEATING VALUE (BTU/CF.)	
169	SANDHILLS	289.70	12,668	1.13	9.15	8.34	13T,206	.11	1,068.20	1,033	169
170	SOUTHERN COASTAL PLAIN	951.20	12,565	1.13	10.65	4,524.27	147,784	2.09	109.65	1,031	170
171	WESTERN MOUNTAIN	948.39	11,936	1.38	11.03	16.0T	138,91T	.10			171
172	NORTH DAKOTA	4,453.40	6,723	.71	8.60	28.28	141,181	.21			172
173	DAYTON	1,824.40	11,808	1.11	12.22	46.00	136,811	.24	159.00	1,045	173
174	GREATER METROPOLITAN CLEVELAND	T,291.T0	11,805	3.24	11.66	456.28	148,642	.95			174
175	MANSFIELD-MARION	46.00	11,793	3.12	15.6T	.12	138,000	.10	18.37	1,000	175
176	METROPOLITAN COLUMBUS	308.32	10,702	3.98	15.16	11.06	138,713	.18	810.28	1,020	176
177	NORTHWEST OHIO	55.80	13,032	3.00	12.60	9.30	138,T6T	.10			177
178	NORTHWEST PENN.-YOUNGSTOWN	5,224.07	12,059	2.66	12.96	685.65	150,3T9	1.31			178
179	PARKERSBURG-MARIETTA	5,248.60	10,600	4.37	18.39	40.15	139,455	.11			179
180	SANDUSKY	51.20	11,322	3.55	13.10	2.T0	138,000	.30			180
181	STEUBENVILLE-WEIRTON-WHEELING	16,220.90	11,485	3.19	15.1T	118.50	13T,582	.10			181
182	WILMINGTON-CHILLICOTHE-LOGAN										182
183	ZANESVILLE-CAMBRIDGE	2,562.30	10,478	4.63	18.26	8.10	136,825	.10			183
184	CENTRAL OKLAHOMA	.60	12,971	1.30	10.00	1T.44	146,652	.69	68,T59.00	1,036	184
185	NORTH CENTRAL OKLAHOMA	I.50	11,350	2.10	11.00				1,960.50	1,043	185
186	NORTHEASTERN OKLAHOMA					11.84	141,064	.46	81,033.50	1,042	186
18T	NORTHWESTERN OKLAHOMA								11,485.92	1,050	18T
188	SOUTHEASTERN OKLAHOMA					4.62	13T,635	.10	60,230.4T	1,029	188
189	SOUTHWESTERN OKLAHOMA					21.4T	145,270	1.60	31,486.53	1,065	189
190	CENTRAL OREGON										190
191	EASTERN OREGON										191
192	NORTHWEST OREGON										192
193	PORTLAND	3,T41.00	T,552	.49	14.88	201.50	13T,T38	.21	2,419.12	1,033	193
194	SOUTHWEST OREGON										194
195	CENTRAL PENNSYLVANIA	4,766.50	12,188	1.8T	13.9T	26.55	13T,142	.15			195
196	SOUTH CENTRAL PENNSYLVANIA	4,234.80	12,2TT	1.86	14.12	359.46	142,830	.48			196
19T	SOUTHWEST PENNSYLVANIA	21,868.52	11,668	2.29	1T.82	361.12	139,307	.26	29.30	1,050	197
198	CAMDEN-SUMTER										198
199	CHARLESTON	828.58	11,7TI	.96	13.39	3,212.TO	148,179	1.99	3,015.96	1,029	199
200	COLUMBIA	1,T36.61	12,219	1.50	12.34	46.68	138,014	.11	3,084.88	1,030	200
201	FLORENCE	302.18	12,IT0	1.05	10.98	16.18	138,T74	.40	3,595.6T	1,029	201
202	GREENVILLE-SPARTANBURG	950.55	11,593	1.16	14.03	3.86	138,000	.20	1,993.TT	1,030	202
203	GREENWOOD					141.28	138,1T2	.20	886.10	1,030	203
204	GEORGETOWN	453.42	11,655	I.33	13.51						204
205	BLACK HILLS-RAPID CITY	13T.49	T,999	.3T	6.22						205
206	SOUTH DAKOTA										206
207	EASTERN TENN.-SOUTHWESTERN VA.	11,028.20	11,200	1.69	17.24	T1.26	137,664	.37			20T
208	MIDDLE TENNESSEE	10,358.20	10,T40	3.55	15.62	125.42	13T,588	.1T			208
209	WESTERN TENNESSEE										209
210	ABILENE-WICHITA FALLS					256.27	143,953	.59	80,T53.68	1,033	210
211	AMARILLO-LUBBOCK					60.50	138,000	.61	T8,835.20	I,00T	211
212	AUSTIN-WACO	4,T31.20	7,000	.60	10.40	1,101.55	144,132	.65	126,038.67	1,001	212
213	BROWNSVILLE-LAREDO					61.92	13T,989	.39	52,845.TO	1,056	213
214	CORPUS CHRISTI-VICTORIA					443.86	139,955	.66	53,846.1T	1,032	214
215	METROPOLITAN DALLAS-FORT WORTH					1,855.42	145,81T	.57	193,932.66	1,023	215
216	METROPOLITAN HOUSTON-GALVESTON					569.53	149,31T	2.01	381,968.71	1,03I	216
217	METROPOLITAN SAN ANTONIO					1,050.45	I41,885	.4T	55,943.47	1,019	21T
218	MIDLAND-ODESSA-SAN ANGELO					80.93	143,855	.48	31,299.76	1,028	218
219	UTAH	452.21	12,094	.53	9.39	3.46	137,000	.20			219
220	WASATCH FRONT	514.16	12,062	.51	8.T3	334.92	146,505	.35	3,TT9.68	944	220
221	VERMONT										221
222	CENTRAL VIRGINIA	49.53	13,350	.90	9.50	.48	134,000	.25	1,351.40	1,045	222
223	HAMPTON ROADS	516.60	12,T28	1.53	8.71	6,662.40	14T,905	2.13	463.10	1,123	223
224	NORTHEASTERN VIRGINIA	505.80	12,391	.89	10.99	28.39	13T,000	.10			224
225	STATE CAPITAL					12,803.50	148,T39	2.30			225
226	VALLEY OF VIRGINIA	903.TO	12,023	.99	14.96	114.45	136,T1T	.05			226
227	NORTHERN WASHINGTON										227
228	OLYMPIA-NORTHWEST WASHINGTON										228
229	PUGET SOUND					431.50	152,210	1.60			229
230	SOUTH CENTRAL WASHINGTON										230
231	ALLEGHENY										231
232	CENTRAL WEST VIRGINIA										232
233	EASTERN PANHANDLE										233
234	KANAWHA VALLEY	6,211.30	11,94T	.91	13.08	139.80	13T,069	.10	48.60	I,100	234
235	NORTH CENTRAL WEST VIRGINIA	5,101.00	12,09T	2.73	14.16	46.47	140,369	.03	340.85	546	235
236	SOUTHERN WEST VIRGINIA										236
23T	LAKE MICHIGAN	2,590.36	11,435	2.58	9.84	13.80	138,464	.30	195.80	1,024	237
238	NORTH CENTRAL WISCONSIN	433.T8	11,868	2.99	9.83	4.15	13T,885	.30	2,148.14	1,025	238
239	SOUTHEASTERN WISCONSIN	4,242.01	11,643	2.53	10.TO	39T.23	I4T,198	2.21	T,904.09	1,022	239
240	SOUTHERN WISCONSIN	1T8.70	11,535	3.06	8.T9	.90	13T,900	.30	4,T45.00	1,010	240
241	CASPER	2,825.50	7,400	.57	11.TO	22.60	138,500	.30			241
242	METROPOLITAN CHEYENNE										242
243	WYOMING	2,944.20	9,280	.48	4.TT	6.33	140,000	.56	.01	832	243
244	PUERTO RICO					17,128.10	145,974	2.32			244
245	AMERICAN SAMOA										245
246	GUAM										246
24T	U. S. VIRGIN ISLANDS										24T
	U.S. TOTALS	386,977.73	11,090	2.32	13.29	534,088.22	145,772	.98	3,421,519.93	1,028	

TABLE 2-A

ESTIMATED ANNUAL EMISSIONS, BY REGION AND STATE, 1973

LINE NO	GEOGRAPHIC REGION AND STATE	PLANT CAPACITY (MW)	ANNUAL GENERATION (1,000 MWH)	ESTIMATED ANNUAL EMISSIONS (1,000 TONS)			LINE NO
				PARTICULATES	SULFUR DIOXIDE	NITROGEN OXIDES	
	NEW ENGLAND						
1	CONNECTICUT	4,635.55	20,329.40	2.25	43.90	62.36	1
2	MAINE	1,248.45	5,881.80	.43	33.79	10.37	2
3	MASSACHUSETTS	7,354.99	32,748.41	2.41	113.77	100.17	3
4	NEW HAMPSHIRE	637.99	3,653.30	1.20	54.95	32.51	4
5	RHODE ISLAND	277.90	1,109.60	.08	6.47	5.11	5
6	VERMONT						6
7	TOTALS	14,154.88	63,722.51	6.37	252.88	210.52	7
	MIDDLE ATLANTIC						
8	NEW JERSEY	7,097.25	32,260.00	5.82	120.72	125.88	8
9	NEW YORK	16,955.96	70,905.28	43.92	510.46	257.86	9
10	PENNSYLVANIA	18,865.24	100,766.50	187.86	1,620.77	415.07	10
11	TOTALS	42,918.45	203,931.78	237.60	2,251.95	798.81	11
	EAST NORTH CENTRAL						
12	ILLINOIS	21,277.87	90,098.47	76.51	1,772.76	567.44	12
13	INDIANA	12,482.30	59,847.99	196.08	1,689.48	402.79	13
14	MICHIGAN	12,449.45	59,034.38	111.97	1,139.37	231.41	14
15	OHIO	19,243.30	95,275.18	533.87	2,612.50	479.02	15
16	WISCONSIN	6,234.93	29,025.90	56.83	540.76	137.84	16
17	TOTALS	71,687.85	333,281.92	975.26	7,754.87	1,818.50	17
	WEST NORTH CENTRAL						
18	IOWA	3,009.25	13,770.13	66.74	241.37	77.24	18
19	KANSAS	4,488.83	15,383.44	34.12	63.99	45.16	19
20	MINNESOTA	3,991.75	18,897.42	76.62	235.83	83.47	20
21	MISSOURI	7,941.64	30,751.52	21.41	803.15	186.09	21
22	NEBRASKA	1,981.65	7,530.10	9.15	47.30	26.31	22
23	NORTH DAKOTA	780.50	4,958.70	51.46	55.53	67.03	23
24	SOUTH DAKOTA	155.00	453.97	3.57	2.38	2.28	24
25	TOTALS	22,348.62	91,745.28	263.07	1,449.55	487.58	25
	SOUTH ATLANTIC						
26	DELAWARE	1,307.50	5,629.90	1.44	69.86	25.32	26
27	DISTRICT OF COLUMBIA	988.35	3,176.80	1.34	20.43	13.65	27
28	FLORIDA	16,204.16	73,324.72	29.23	747.68	273.31	28
29	GEORGIA	6,740.90	30,290.40	31.46	487.59	155.86	29
30	MARYLAND	4,878.10	24,246.74	20.76	199.38	87.64	30
31	NORTH CAROLINA	9,355.22	54,816.50	102.54	448.27	199.23	31
32	SOUTH CAROLINA	5,277.97	18,760.40	44.63	161.31	80.45	32
33	VIRGINIA	6,796.56	33,914.40	295.33	276.65	99.01	33
34	WEST VIRGINIA	12,052.58	55,844.01	209.11	981.61	246.90	34
35	TOTALS	63,601.34	300,003.87	735.84	3,392.78	1,181.37	35
	EAST SOUTH CENTRAL						
36	ALABAMA	8,711.27	43,557.24	403.28	879.00	204.24	36
37	KENTUCKY	10,296.30	49,134.96	74.89	1,372.90	328.54	37
38	MISSISSIPPI	3,635.63	10,314.72	2.63	81.84	33.58	38
39	TENNESSEE	10,066.90	47,908.00	401.07	1,131.33	212.69	39
40	TOTALS	32,710.10	150,914.92	881.87	3,465.07	779.05	40
	WEST SOUTH CENTRAL						
41	ARKANSAS	2,526.84	8,676.86	1.20	18.69	25.17	41
42	LOUISIANA	10,033.76	41,297.50	1.26	15.35	93.72	42
43	OKLAHOMA	4,939.18	25,986.92	.15	.22	49.86	43
44	TEXAS	33,162.44	131,946.23	10.71	70.22	300.91	44
45	TOTALS	50,662.22	207,907.51	13.32	104.48	469.66	45
	MOUNTAIN						
46	ARIZONA	2,035.54	9,243.00	8.77	21.03	28.09	46
47	COLORADO	2,410.00	12,804.91	25.42	51.79	49.71	47
48	IDAHO						48
49	MONTANA	291.80	1,455.10	4.36	11.64	8.48	49
50	NEVADA	2,372.15	10,587.50	8.20	33.05	46.71	50
51	NEW MEXICO	3,951.80	19,309.83	88.33	95.95	81.42	51
52	UTAH	501.64	1,881.40	8.76	10.18	9.84	52
53	WYOMING	1,517.10	9,094.37	55.80	59.31	52.44	53
54	TOTALS	13,080.03	64,376.11	199.64	282.95	276.69	54
	PACIFIC						
55	CALIFORNIA	22,988.16	96,398.31	11.49	104.67	243.25	55
56	OREGON	107.80	77.72	.02	.05	.72	56
57	WASHINGTON	2,366.80	10,160.50	9.06	38.33	34.81	57
58	TOTALS	25,462.76	106,636.53	20.57	143.05	278.78	58
	NON-CONTIGUOUS U.S.						
59	ALASKA						59
60	HAWAII	937.88	4,625.00	1.25	27.17	17.32	60
61	PUERTO RICO	2,437.20	9,216.98	2.88	133.33	37.77	61
62	VIRGIN ISLANDS						62
63	TOTALS	3,375.08	13,841.98	4.13	160.50	55.09	63
64	U.S. TOTALS	340,001.33	1,536,362.41	3,337.67	19,258.08	6,356.05	64

TABLE 2-B

ESTIMATED ANNUAL EMISSIONS, BY AIR QUALITY CONTROL REGION, 1973

AQCR NO	AIR QUALITY CONTROL REGION	PLANT CAPACITY (MW)	ANNUAL GENERATION (1,000 MWH)	ESTIMATED ANNUAL EMISSIONS (1,000 TONS)			AQCP NO
				PARTICULATES	SULFUR DIOXIDE	NITROGEN OXIDES	
1	ALABAMA AND TOMBIGBEE RIVERS	75.00	290.40	5.25	2.84	1.22	1
2	COLUMBUS-PHENIX CITY						2
3	EAST ALABAMA	138.00	701.50	3.56	12.45	3.04	3
4	METROPOLITAN BIRMINGHAM	3,174.98	17,924.50	144.08	186.75	95.12	4
5	MOBILE-PENSAC.-PAN. CITY-SO MISS	6,999.43	24,679.60	62.31	392.70	105.14	5
6	SOUTHEAST ALABAMA	40.00	78.60	.10	.07	.22	6
7	TENN. RIV. VALLEY-CUMBERLAND MTS	3,374.49	15,877.74	201.58	516.47	56.70	7
8	COOK INLET						8
9	NORTHERN ALASKA						9
10	SOUTH CENTRAL ALASKA						10
11	SOUTHEASTERN ALASKA						11
12	ARIZONA-NEW MEX. SOUTHERN BORDER	146.50	827.10	.03	.21	1.57	12
13	CLARK-MOHAVE	2,105.85	9,117.20	8.20	33.18	43.94	13
14	FOUR CORNERS	2,746.40	14,385.93	95.81	96.74	72.25	14
15	PHOENIX-TUCSON	1,730.24	7,402.20	1.12	16.47	22.11	15
16	CENTRAL ARKANSAS	994.00	3,495.60	.40	6.01	9.71	16
17	METROPOLITAN FORT SMITH						17
18	METROPOLITAN MEMPHIS	990.00	4,974.90	.47	99.95	47.12	18
19	MONROE-EL DORADO	593.52	3,246.91	.02	.13	6.35	19
20	NORTHEAST ARKANSAS	1,150.00	4,073.72	.72	11.03	12.46	20
21	NORTHWEST ARKANSAS	59.84	150.63	.03	1.10	.50	21
22	SHREVEPORT-TEXARKANA-TYLER	3,093.09	13,014.27	.11	1.32	27.24	22
23	GREAT BASIN VALLEY						23
24	METROPOLITAN LOS ANGELES	12,349.96	53,791.00	9.00	82.87	152.59	24
25	NORTH CENTRAL COAST	2,174.70	9,300.40	.46	4.54	18.67	25
26	NORTH COAST	167.70	273.50		.06	.69	26
27	NORTHEAST PLATEAU						27
28	SACRAMENTO VALLEY						28
29	SAN DIEGO	2,144.00	8,972.00	1.39	10.25	23.06	29
30	SAN FRANCISCO BAY AREA	4,594.90	17,757.51	.46	4.49	35.87	30
31	SAN JOAQUIN VALLEY	165.50	3.70			.01	31
32	SOUTH CENTRAL COAST	1,056.30	4,573.70	.13	1.32	8.75	32
33	SOUTHEAST DESERT	335.10	1,726.50	.05	1.14	3.61	33
34	COMANCHE	25.00	76.20			.22	34
35	GRAND MESA	109.50	712.80	3.34	3.31	2.90	35
36	METROPOLITAN DENVER	1,448.80	8,692.70	17.92	38.16	33.07	36
37	PAWNEE						37
38	SAN ISABEL	663.50	1,947.11	1.94	4.76	7.85	38
39	SAN LUIS						39
40	YAMPA	163.20	1,376.10	2.22	5.56	5.67	40
41	EASTERN CONNECTICUT	1,238.90	4,775.40	.65	8.10	12.10	41
42	HARTFORD-NEW HAVEN-SPRINGFIELD	2,854.64	12,716.08	1.31	35.72	39.30	42
43	NEW JERSEY-NEW YORK-CONNECTICUT	17,758.80	67,582.62	9.38	247.16	259.39	43
44	NORTHWESTERN CONNECTICUT						44
45	METROPOLITAN PHILADELPHIA	5,436.95	24,711.00	9.31	205.08	110.12	45
46	SOUTHERN DELAWARE	377.50	2,227.70	1.20	27.39	8.26	46
47	NATIONAL CAPITAL	3,293.35	14,345.00	18.62	148.05	53.53	47
48	CENTRAL FLORIDA	2,388.10	10,568.60	.72	43.59	31.71	48
49	JACKSONVILLE-BRUNSWICK	1,989.20	8,944.11	2.01	80.40	31.19	49
50	SOUTHEAST FLORIDA	5,329.08	24,592.90	.83	71.69	61.83	50
51	SOUTHWEST FLORIDA	619.00	3,126.00	.33	16.38	11.18	51
52	WEST CENTRAL FLORIDA	4,315.78	20,306.41	14.31	391.89	114.31	52
53	AUGUSTA-AIKEN	250.00	1,477.70	.44	17.62	8.41	53
54	CENTRAL GEORGIA	1,927.00	7,443.30	10.77	64.62	43.79	54
55	CHATTANOOGA	2,548.00	11,060.90	6.36	292.19	53.77	55
56	METROPOLITAN ATLANTA	1,468.00	7,961.00	8.73	85.85	43.27	56
57	NORTHEAST GEORGIA						57
58	SAVANNAH-BEAUFORT	925.50	3,754.10	7.77	35.24	17.63	58
59	SOUTHWEST GEORGIA	218.00	1,168.70	4.76	15.70	5.08	59
60	HAWAII (ENTIRE STATE)	937.88	4,625.00	1.25	27.17	17.32	60
61	EASTERN IDAHO						61
62	EASTERN WASH.-NORTHERN IDAHO						62
63	IDAHO						63
64	METROPOLITAN BOISE						64
65	BURLINGTON-KEOKUK	2,707.00	10,354.80	16.31	313.26	93.02	65
66	EAST CENTRAL	212.30	858.03	2.95	22.78	4.70	66
67	METROPOLITAN CHICAGO	11,115.00	46,226.80	19.42	665.45	264.17	67
68	METROPOLITAN DUBUQUE	367.30	1,984.60	11.71	60.40	19.89	68
69	METROPOLITAN QUAD CITIES	2,401.70	13,344.90	7.69	71.38	19.91	69
70	METROPOLITAN ST. LOUIS	7,256.65	28,104.80	12.75	713.50	205.40	70
71	NORTH CENTRAL ILLINOIS	473.45	2,222.96	4.31	60.24	11.59	71
72	PADUCAH-CAIRO	5,671.45	32,580.28	33.17	980.73	249.98	72
73	ROCKFORD-JANESVILLE-BELOIT	365.00	1,549.10	3.31	28.13	13.89	73
74	SOUTHEAST ILLINOIS	478.60	2,656.30	24.16	83.29	18.11	74
75	WEST CENTRAL ILLINOIS	2,984.82	11,239.28	4.92	470.33	145.70	75
76	EAST CENTRAL INDIANA	93.00	316.10	1.01	9.64	2.46	76
77	EVANSVILLE-OWENSBORO-HENDERSON	3,244.37	15,284.57	57.38	553.56	91.04	77
78	LOUISVILLE	2,284.50	9,752.60	4.41	293.49	38.97	78
79	METROPOLITAN CINCINNATI	3,528.55	13,033.40	109.32	368.75	83.73	79
80	METROPOLITAN INDIANAPOLIS	1,475.90	4,098.90	5.99	115.73	22.31	80
81	NORTHEAST INDIANA						81
82	SOUTH BEND-ELKHART-BENTON HARBOR	1,329.03	3,998.90	13.91	37.30	14.34	82
83	SOUTHERN INDIANA	1,304.00	9,353.10	11.87	285.88	60.11	83
84	WABASH VALLEY	2,957.00	14,451.10	50.46	351.31	85.61	84

TABLE 2-B

(Contd) - ESTIMATED ANNUAL EMISSIONS, BY AIR QUALITY CONTROL REGION, 1973

AQCR NO	AIR QUALITY CONTROL REGION	PLANT CAPACITY (MW)	ANNUAL GENERATION (1,000 MWH)	ESTIMATED ANNUAL EMISSIONS (1,000 TONS)			AQCR NO
				PARTICULATES	SULFUR DIOXIDE	NITROGEN OXIDES	
85	METROPOL. OMAHA-COUNCIL BLUFFS	1,054.10	4,981.30	10.99	36.03	16.58	85
86	METROPOLITAN SIOUX CITY	536.25	2,571.20	.73	11.68	14.91	86
87	METROPOLITAN SIOUX FALLS	123.00	314.80	.78	1.39	1.25	87
88	NORTHEAST IOWA	567.45	2,232.74	19.31	51.42	15.75	88
89	NORTH CENTRAL IOWA	43.80	151.40	.69	1.87	.70	89
90	NORTHWEST IOWA	37.50	210.80	.62	1.82	.70	90
91	SOUTHEAST IOWA						91
92	SOUTH CENTRAL IOWA	744.70	3,483.49	30.55	66.52	16.65	92
93	SOUTHWEST IOWA						93
94	METROPOLITAN KANSAS CITY	2,580.72	8,959.96	7.16	114.95	49.64	94
95	NORTHEAST KANSAS	959.45	3,753.90	25.56	25.81	10.26	95
96	NORTH CENTRAL KANSAS	60.95	274.60		.17	.88	96
97	NORTHWEST KANSAS	119.10	579.20		.04	1.30	97
98	SOUTHEAST KANSAS	1,245.95	1,466.13	7.56	29.98	10.12	98
99	SOUTH CENTRAL KANSAS	1,268.60	6,338.80	.02	.68	13.60	99
100	SOUTHWEST KANSAS	339.90	1,164.61	.01	.22	2.77	100
101	APPALACHIAN	37.50	64.50	.97	1.53	.35	101
102	BLUEGRASS	1,023.00	4,463.20	27.71	66.90	18.47	102
103	HUNTINGTON-ASHL.-PORTSM.-IRONTON	5,073.40	30,965.01	102.56	524.26	137.64	103
104	NORTH CENTRAL KENTUCKY						104
105	SOUTH CENTRAL KENTUCKY	354.00	1,785.90	6.19	36.66	7.17	105
106	SOUTHERN LOUISIANA-SE TEXAS	10,424.51	43,808.43	1.28	15.26	99.60	106
107	ANDROSCOGGIN VALLEY	977.00	4,099.70	.08	11.61	3.52	107
108	AROOSTOOK						108
109	DOWN EAST	57.45	294.30	.10	4.55	1.33	109
110	METROPOLITAN PORTLAND	214.00	1,487.80	.25	17.63	5.52	110
111	NORTHWEST MAINE						111
112	CENTRAL MARYLAND						112
113	CUMBERLAND-KEYSER	1,771.98	5,998.10	2.10	94.11	24.55	113
114	EASTERN SHORE	229.50	1,149.40	.09	6.90	5.04	114
115	METROPOLITAN BALTIMORE	2,091.10	10,010.64	1.76	54.12	38.40	115
116	SOUTHERN MARYLAND	1,148.00	6,445.80	6.58	60.79	20.94	116
117	BERKSHIRE						117
118	CENTRAL MASSACHUSETTS	35.95	95.47	.02	.41	.41	118
119	METROPOLITAN BOSTON	2,535.85	11,889.36	1.50	42.99	44.54	119
120	METROPOLITAN PROVIDENCE	4,460.70	18,654.70	.78	64.71	51.66	120
121	MERRIMACK VALLEY-SOUTHERN N.H.	637.99	3,653.30	1.20	54.95	32.51	121
122	CENTRAL MICHIGAN	2,402.25	13,887.30	59.00	362.25	54.66	122
123	METROPOLITAN DETROIT-PORT HURON	5,064.00	25,210.20	38.21	469.28	106.98	123
124	METROPOLITAN TOLEDO	3,904.00	17,689.80	11.03	308.68	61.52	124
125	SOUTH CENTRAL MICHIGAN	994.50	3,263.68	2.89	64.09	17.34	125
126	UPPER MICHIGAN	286.70	1,679.00	3.15	16.46	7.77	126
127	CENTRAL MINNESOTA	568.80	3,270.70				127
128	SOUTHEAST MINNESOTA-LA CROSSE	958.35	4,230.02	23.87	109.25	17.14	128
129	DULUTH-SUPERIOR	852.70	3,212.40	60.05	40.71	18.74	129
130	METROPOLITAN FARGO-MOORHEAD						130
131	MINNEAPOLIS-ST. PAUL	2,034.75	10,311.50	14.40	171.54	53.72	131
132	NORTHWEST MINNESOTA	184.90	1,051.60	1.28	15.40	7.37	132
133	SOUTHWEST MINNESOTA	75.35	223.90	.38	2.51	1.10	133
134	MISSISSIPPI DELTA	252.00	845.22	.15	2.98	2.28	134
135	NORTHEAST MISSISSIPPI						135
136	NORTHERN PIEDMONT	284.00	1,991.80	.84	15.62	7.81	136
137	NORTHERN MISSOURI	169.70	377.70	3.97	10.23	3.82	137
138	SOUTHEAST MISSOURI	30.00	60.50	.01	.17	.20	138
139	SOUTHWEST MISSOURI	1,069.90	5,630.86	3.99	263.30	38.10	139
140	BILLINGS	241.80	1,136.00	1.25	8.23	5.72	140
141	GREAT FALLS						141
142	HELENA						142
143	MILES CITY	50.00	319.10	3.11	3.41	2.76	143
144	MISSOULA						144
145	LINCOLN-BEATRICE-FAIRBURY	258.65	1,379.90	2.39	16.52	9.03	145
146	NEBRASKA	799.50	1,954.00	.31	1.12	3.86	146
147	NEVADA						147
148	NORTHWEST NEVADA	353.00	1,754.00	.02	.27	3.50	148
149	NEW HAMPSHIRE						149
150	NEW JERSEY	950.65	5,992.90	.84	12.81	10.30	150
151	NE PENN.-UPPER DELAWARE VALLEY	1,261.30	6,842.10	15.61	80.98	29.54	151
152	ALBUQUERQUE-MID RIO GRANDE	384.50	1,955.30	.05	.93	4.69	152
153	EL PASO-LAS CRUCES-ALAMOGORDO	650.80	2,780.80	.07	2.31	6.24	153
154	NORTHEASTERN PLAINS						154
155	PECOS-PERMIAN BASIN	508.00	2,653.00		.01	5.42	155
156	SOUTHWESTERN MTS-AUGUSTINE PLAIN						156
157	UPPER RIO GRANDE VALLEY						157
158	CENTRAL NEW YORK	876.00	5,205.00	.39	27.14	6.94	158
159	CHAMPLAIN VALLEY						159
160	GENESEE-FINGER LAKES	1,098.80	6,086.86	6.71	51.28	14.71	160
161	HUDSON VALLEY	931.91	5,837.00	.69	61.13	20.62	161
162	NIAGARA FRONTIER	828.00	3,831.70	.64	67.76	18.42	162
163	SOUTHERN TIER EAST	205.75	963.20	13.68	19.41	6.49	163
164	SOUTHERN TIER WEST	968.00	6,066.50	16.41	110.84	27.81	164
165	EASTERN MOUNTAIN	2,795.00	19,980.60	3.41	154.76	77.21	165
166	EASTERN PIEDMONT	2,234.02	10,534.90	64.52	99.95	35.67	166
167	METROPOLITAN CHARLOTTE	2,389.00	14,074.90	13.07	93.10	48.62	167
168	NORTHERN COASTAL PLAIN						168

TABLE 2-B

(Contd) - ESTIMATED ANNUAL EMISSIONS, BY AIR QUALITY CONTROL REGION, 1973

AQCR NO	AIR QUALITY CONTROL REGION	PLANT CAPACITY (MW)	ANNUAL GENERATION (1,000 MWH)	ESTIMATED ANNUAL EMISSIONS (1,000 TONS)			AQCR NO
				PARTICULATES	SULFUR DIOXIDE	NITROGEN OXIDES	
169	SANDHILLS	165.50	780.30	4.51	6.42	2.82	169
170	SOUTHERN COASTAL PLAIN	1,074.07	5,061.00	14.07	52.76	18.53	170
171	WESTERN MOUNTAIN	413.63	2,393.00	2.12	25.66	8.57	171
172	NORTH DAKOTA	780.50	4,958.70	51.46	55.53	67.03	172
173	DAYTON	1,010.60	3,807.90	15.13	39.13	16.16	173
174	GREATER METROPOLITAN CLEVELAND	3,326.37	17,122.20	28.32	465.05	70.35	174
175	MANSFIELD-MARION	37.50	67.20	.06	2.81	.42	175
176	METROPOLITAN COLUMBUS	205.50	546.78	23.48	24.05	3.56	176
177	NORTHWEST OHIO	37.50	82.00	5.97	3.28	.52	177
178	NORTHWEST PENN.-YOUNGSTOWN	2,159.20	11,825.50	36.52	275.42	61.40	178
179	PARKERSBURG-MARIETTA	1,976.60	11,104.80	136.14	449.78	86.40	179
180	SANDUSKY	31.33	69.80	.55	3.57	.44	180
181	STEUBENVILLE-WEIRTON-WHEELING	7,037.15	38,411.10	117.76	1,019.15	176.55	181
182	WILMINGTON-CHILLICOTHE-LOGAN						182
183	ZANESVILLE-CAMBRIDGE	1,720.50	3,850.80	128.78	232.40	44.17	183
184	CENTRAL OKLAHOMA	1,480.53	7,305.00	.04	.02	13.43	184
185	NORTH CENTRAL OKLAHOMA	40.00	130.40	.11	.06	.40	185
186	NORTHEASTERN OKLAHOMA	1,369.65	8,078.92		.02	15.84	186
187	NORTHWESTERN OKLAHOMA	191.00	1,181.70			2.24	187
188	SOUTHEASTERN OKLAHOMA	1,290.50	6,148.20			11.76	188
189	SOUTHWESTERN OKLAHOMA	567.50	3,142.70		.12	6.19	189
190	CENTRAL OREGON						190
191	EASTERN OREGON						191
192	NORTHWEST OREGON						192
193	PORTLAND	1,437.60	5,196.22	9.01	36.07	34.59	193
194	SOUTHWEST OREGON						194
195	CENTRAL PENNSYLVANIA	2,168.38	10,772.20	25.83	127.39	40.13	195
196	SOUTH CENTRAL PENNSYLVANIA	1,796.43	10,521.80	8.43	155.10	38.85	196
197	SOUTHWEST PENNSYLVANIA	9,440.68	51,385.80	110.71	982.33	222.05	197
198	CAMDEN-SUMTER						198
199	CHARLESTON	1,128.35	4,158.50	6.46	37.08	15.13	199
200	COLUMBIA	1,046.80	4,663.10	.99	51.16	26.76	200
201	FLORENCE	975.32	1,106.20	5.64	6.24	3.46	201
202	GREENVILLE-SPARTANBURG	1,192.70	4,332.50	1.95	21.60	8.92	202
203	GREENWOOD	32.00	124.50	.02	.09	.48	203
204	GEORGETOWN	163.20	1,061.40	22.11	11.82	6.80	204
205	BLACK HILLS-RAPID CITY	32.00	139.17	2.79	.99	1.03	205
206	SOUTH DAKOTA						206
207	EASTERN TENN.-SOUTHWESTERN VA.	4,449.00	25,934.46	490.57	346.09	93.83	207
208	MIDDLE TENNESSEE	5,340.40	22,573.84	185.94	721.45	91.06	208
209	WESTERN TENNESSEE						209
210	ABILENE-WICHITA FALLS	1,820.16	8,113.70	.04	.51	16.31	210
211	AMARILLO-LUBBOCK	1,540.87	7,188.40	.01	.11	16.42	211
212	AUSTIN-WACO	4,437.73	18,959.37	9.79	58.02	68.44	212
213	BROWNSVILLE-LAREDO	1,164.40	4,962.93		.06	10.34	213
214	CORPUS CHRISTI-VICTORIA	1,455.70	5,688.60	.07	.98	11.48	214
215	METROPOLITAN DALLAS-FORT WORTH	6,655.67	19,022.63	.42	3.76	43.44	215
216	METROPOLITAN HOUSTON-GALVESTON	8,771.71	39,334.80	.12	4.25	76.28	216
217	METROPOLITAN SAN ANTONIO	2,223.00	6,131.70	.15	1.50	11.45	217
218	MIDLAND-ODESSA-SAN ANGELO	1,073.04	2,993.70	.01	.13	6.28	218
219	UTAH	166.00	411.80	7.81	4.70	4.08	219
220	WASATCH FRONT	335.64	1,469.60	.95	5.48	5.76	220
221	VERMONT						221
222	CENTRAL VIRGINIA	29.00	172.30	.61	.87	.71	222
223	HAMPTON ROADS	1,124.64	5,279.70	3.34	63.13	19.14	223
224	NORTHEASTERN VIRGINIA	254.28	1,137.60	.13	8.82	4.55	224
225	STATE CAPITAL	3,235.54	14,465.10	.59	98.95	28.23	225
226	VALLEY OF VIRGINIA	435.60	2,259.90	9.64	17.48	8.35	226
227	NORTHERN WASHINGTON						227
228	OLYMPIA-NORTHWEST WASHINGTON						228
229	PUGET SOUND	175.00	164.00	.07	2.31	.94	229
230	SOUTH CENTRAL WASHINGTON	862.00	4,878.00				230
231	ALLEGHENY						231
232	CENTRAL WEST VIRGINIA						232
233	EASTERN PANHANDLE						233
234	KANAWHA VALLEY	3,599.50	16,229.40	61.70	111.40	56.22	234
235	NORTH CENTRAL WEST VIRGINIA	2,908.00	12,367.60	46.75	273.31	46.76	235
236	SOUTHERN WEST VIRGINIA						236
237	LAKE MICHIGAN	1,975.78	11,215.20	10.64	132.60	52.42	237
238	NORTH CENTRAL WISCONSIN	176.50	1,086.60	3.66	25.42	4.20	238
239	SOUTHEASTERN WISCONSIN	2,709.00	9,869.40	8.53	191.06	34.03	239
240	SOUTHERN WISCONSIN	195.50	737.80	.45	10.69	2.51	240
241	CASPER	750.30	4,019.20	27.54	31.59	25.48	241
242	METROPOLITAN CHEYENNE						242
243	WYOMING	766.80	5,075.17	28.26	27.72	26.96	243
244	PUERTO RICO	2,437.20	9,216.98	2.88	133.33	37.77	244
245	AMERICAN SAMOA						245
246	GUAM						246
247	U. S. VIRGIN ISLANDS						247
	U.S. TOTALS	340,001.33	1,536,362.41	3,337.67	19,258.08	6,356.05	

TABLE 3-A

ASH AND SULFUR COLLECTION AND DISPOSAL, BY REGION AND STATE, 1973

LINE NO	GEOGRAPHIC REGION AND STATE	TOTAL ASH		TOTAL ELEMENTAL SULFUR		TOTAL SULFUR EQUIVALENT OF ACID		LINE NO
		COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	
	NEW ENGLAND							
1	CONNECTICUT	4.40	.03					1
2	MAINE	.64	.03					2
3	MASSACHUSETTS	9.51	6.94					3
4	NEW HAMPSHIRE	71.70	54.10					4
5	RHODE ISLAND							5
6	VERMONT							6
7	TOTALS	86.25	61.10					7
	MIDDLE ATLANTIC							
8	NEW JERSEY	272.40	24.20					8
9	NEW YORK	913.90	19.10					9
10	PENNSYLVANIA	6,192.60	237.10					10
11	TOTALS	7,378.90	280.40					11
	EAST NORTH CENTRAL							
12	ILLINOIS	3,666.15	40.50					12
13	INDIANA	3,039.02	206.30					13
14	MICHIGAN	2,488.96	318.48					14
15	OHIO	6,182.83	429.10					15
16	WISCONSIN	1,133.85	31.57					16
17	TOTALS	16,510.81	1,025.95					17
	WEST NORTH CENTRAL							
18	IOWA	543.53	9.00					18
19	KANSAS	150.46						19
20	MINNESOTA	657.34	170.20					20
21	MISSOURI	1,665.41	269.60					21
22	NEBRASKA	120.43	10.80					22
23	NORTH DAKOTA	294.20	2.38					23
24	SOUTH DAKOTA	11.00						24
25	TOTALS	3,442.37	461.98					25
	SOUTH ATLANTIC							
26	DELAWARE	103.30	2.80					26
27	DISTRICT OF COLUMBIA	21.75						27
28	FLORIDA	1,009.98	492.19					28
29	GEORGIA	1,176.10	110.40					29
30	MARYLAND	489.80	3.70					30
31	NORTH CAROLINA	2,359.38	47.91					31
32	SOUTH CAROLINA	670.07	.43					32
33	VIRGINIA	612.09	12.10					33
34	WEST VIRGINIA	3,037.90	246.50					34
35	TOTALS	9,480.37	916.03					35
	EAST SOUTH CENTRAL							
36	ALABAMA	2,257.52	54.20					36
37	KENTUCKY	3,334.71	103.00					37
38	MISSISSIPPI	129.51						38
39	TENNESSEE	3,022.20	92.70					39
40	TOTALS	8,743.94	249.90					40
	WEST SOUTH CENTRAL							
41	ARKANSAS							41
42	LOUISIANA							42
43	OKLAHOMA							43
44	TEXAS	473.10	13.70					44
45	TOTALS	473.10	13.70					45
	MOUNTAIN							
46	ARIZONA	33.89						46
47	COLORADO	400.28	1.96					47
48	IDAHO							48
49	MONTANA	67.40	4.40					49
50	NEVADA	494.39	11.02					50
51	NEW MEXICO	1,606.70						51
52	UTAH	77.40	.03					52
53	WYOMING	434.60	10.30					53
54	TOTALS	3,114.66	27.71					54
	PACIFIC							
55	CALIFORNIA	2.01						55
56	OREGON							56
57	WASHINGTON	556.90						57
58	TOTALS	558.91						58
	NON-CONTIGUOUS U.S.							
59	ALASKA							59
60	HAWAII	.40						60
61	PUERTO RICO							61
62	VIRGIN ISLANDS							62
63	TOTALS	.40						63
64	U.S. TOTALS	49,789.71	3,036.77					64

TABLE 3-B

ASH AND SULFUR COLLECTION AND DISPOSAL, BY AIR QUALITY CONTROL REGION, 1973

AQCR NO	AIR QUALITY CONTROL REGION	TOTAL ASH		TOTAL ELEMENTAL SULFUR		TOTAL SULFUR EQUIVALENT OF ACID		AQCR NO
		COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	
1	ALABAMA AND TOMBIGBEE RIVERS	16.50						1
2	COLUMBUS-PHENIX CITY							2
3	EAST ALABAMA	38.50						3
4	METROPOLITAN BIRMINGHAM	951.70	28.10					4
5	MOBILE-PENSAC.-PAN. CITY-SO MISS	782.30	.10					5
6	SOUTHEAST ALABAMA	.42						6
7	TENN. RIV. VALLEY-CUMBERLAND MTS	884.80	26.00					7
8	COOK INLET							8
9	NORTHERN ALASKA							9
10	SOUTH CENTRAL ALASKA							10
11	SOUTHEASTERN ALASKA							11
12	ARIZONA-NEW MEX. SOUTHERN BORDER							12
13	CLARK-MOHAVE	494.39	11.02					13
14	FOUR CORNERS	1,640.59						14
15	PHOENIX-TUCSON							15
16	CENTRAL ARKANSAS							16
17	METROPOLITAN FORT SMITH							17
18	METROPOLITAN MEMPHIS	186.20	50.00					18
19	MONROE-EL DORADO							19
20	NORTHEAST ARKANSAS							20
21	NORTHWEST ARKANSAS							21
22	SHREVEPORT-TEXARKANA-TYLER							22
23	GREAT BASIN VALLEY							23
24	METROPOLITAN LOS ANGELES	2.01						24
25	NORTH CENTRAL COAST							25
26	NORTH COAST							26
27	NORTHEAST PLATEAU							27
28	SACRAMENTO VALLEY							28
29	SAN DIEGO							29
30	SAN FRANCISCO BAY AREA							30
31	SAN JOAQUIN VALLEY							31
32	SOUTH CENTRAL COAST							32
33	SOUTHEAST DESERT							33
34	COMANCHE							34
35	GRAND MESA	28.47						35
36	METROPOLITAN DENVER	261.62	1.96					36
37	PAWNEE							37
38	SAN ISABEL	47.89						38
39	SAN LUIS							39
40	YAMPA	62.30						40
41	EASTERN CONNECTICUT							41
42	HARTFORD-NEW HAVEN-SPRINGFIELD	5.16						42
43	NEW JERSEY-NEW YORK-CONNECTICUT	123.99	1.15					43
44	NORTHWESTERN CONNECTICUT							44
45	METROPOLITAN PHILADELPHIA	337.00	62.20					45
46	SOUTHERN DELAWARE	95.00						46
47	NATIONAL CAPITAL	393.95						47
48	CENTRAL FLORIDA	.20	.10					48
49	JACKSONVILLE-BRUNSWICK	2.56	.16					49
50	SOUTHEAST FLORIDA	.82	.23					50
51	SOUTHWEST FLORIDA							51
52	WEST CENTRAL FLORIDA	720.70	491.70					52
53	AUGUSTA-AIKEN	64.05						53
54	CENTRAL GEORGIA	318.70	6.10					54
55	CHATTANOOGA	479.10	32.00					55
56	METROPOLITAN ATLANTA	292.90	72.30					56
57	NORTHEAST GEORGIA							57
58	SAVANNAH-BEAUFORT	88.93						58
59	SOUTHWEST GEORGIA	80.00						59
60	HAWAII (ENTIRE STATE)	.40						60
61	EASTERN IDAHO							61
62	EASTERN WASH.-NORTHERN IDAHO							62
63	IDAHO							63
64	METROPOLITAN BOISE							64
65	BURLINGTON-KEOKUK	426.63	17.80					65
66	EAST CENTRAL	41.10	.80					66
67	METROPOLITAN CHICAGO	1,656.40	83.80					67
68	METROPOLITAN DUBUQUE	92.36						68
69	METROPOLITAN QUAD CITIES	123.50	3.00					69
70	METROPOLITAN ST. LOUIS	1,462.50	150.40					70
71	NORTH CENTRAL ILLINOIS	107.82						71
72	PADUCAH-CAIRO	2,296.74	47.00					72
73	ROCKFORD-JANESVILLE-BELOIT	78.40						73
74	SOUTHEAST ILLINOIS	156.62						74
75	WEST CENTRAL ILLINOIS	897.30						75
76	EAST CENTRAL INDIANA	16.40						76
77	EVANSVILLE-OWENSBORO-HENDERSON	931.94						77
78	LOUISVILLE	513.90	57.10					78
79	METROPOLITAN CINCINNATI	792.66	37.00					79
80	METROPOLITAN INDIANAPOLIS	210.00	23.70					80
81	NORTHEAST INDIANA							81
82	SOUTH BEND-ELKHART-BENTON HARBOR	56.40	15.80					82
83	SOUTHERN INDIANA	457.00	57.00					83
84	WABASH VALLEY	723.72	10.70					84

TABLE 3-B

(Contd) - ASH AND SULFUR COLLECTION AND DISPOSAL, BY AIR QUALITY CONTROL REGION, 1973

AQCR NO	AIR QUALITY CONTROL REGION	TOTAL ASH		TOTAL ELEMENTAL SULFUR		TOTAL SULFUR EQUIVALENT OF ACID		AQCR NO
		COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	
85	METROPOL. OMAHA-COUNCIL BLUFFS	114.40	6.70					85
86	METROPOLITAN SIOUX CITY	135.60						86
87	METROPOLITAN SIOUX FALLS	3.00						87
88	NORTHEAST IOWA	70.90	3.00					88
89	NORTH CENTRAL IOWA	3.96						89
90	NORTHWEST IOWA	2.84						90
91	SOUTHEAST IOWA							91
92	SOUTH CENTRAL IOWA	124.53	3.00					92
93	SOUTHWEST IOWA							93
94	METROPOLITAN KANSAS CITY	251.47	38.70					94
95	NORTHEAST KANSAS	51.50						95
96	NORTH CENTRAL KANSAS							96
97	NORTHWEST KANSAS							97
98	SOUTHEAST KANSAS	72.48						98
99	SOUTH CENTRAL KANSAS							99
100	SOUTHWEST KANSAS							100
101	APPALACHIAN	6.10						101
102	BLUEGRASS	249.76						102
103	HUNTINGTON-ASHL.-PORTSM.-IRONTON	1,806.30	251.60					103
104	NORTH CENTRAL KENTUCKY							104
105	SOUTH CENTRAL KENTUCKY	110.71						105
106	SOUTHERN LOUISIANA-SE TEXAS							106
107	ANDROSCOGGIN VALLEY	.29						107
108	AROOSTOOK							108
109	DOWN EAST							109
110	METROPOLITAN PORTLAND	.35	.03					110
111	NORTHWEST MAINE							111
112	CENTRAL MARYLAND							112
113	CUMBERLAND-KEYSER	398.40						113
114	EASTERN SHORE							114
115	METROPOLITAN BALTIMORE	113.50	3.70					115
116	SOUTHERN MARYLAND	73.40						116
117	BERKSHIRE							117
118	CENTRAL MASSACHUSETTS							118
119	METROPOLITAN BOSTON	.43	.05					119
120	METROPOLITAN PROVIDENCE	7.12	6.89					120
121	MERRIMACK VALLEY-SOUTHERN N.H.	71.70	54.10					121
122	CENTRAL MICHIGAN	774.90	154.50					122
123	METROPOLITAN DETROIT-PORT HURON	978.50	153.80					123
124	METROPOLITAN TOLEDO	801.60						124
125	SOUTH CENTRAL MICHIGAN	129.70	10.18					125
126	UPPER MICHIGAN	39.16						126
127	CENTRAL MINNESOTA							127
128	SOUTHEAST MINNESOTA-LA CROSSE	290.81	10.40					128
129	DULUTH-SUPERIOR	159.23						129
130	METROPOLITAN FARGO-MOORHEAD							130
131	MINNEAPOLIS-ST. PAUL	436.00	160.10					131
132	NORTHWEST MINNESOTA	45.30	10.10					132
133	SOUTHWEST MINNESOTA	9.50						133
134	MISSISSIPPI DELTA	.61						134
135	NORTHEAST MISSISSIPPI							135
136	NORTHERN PIEDMONT	109.10						136
137	NORTHERN MISSOURI	18.30	10.30					137
138	SOUTHEAST MISSOURI							138
139	SOUTHWEST MISSOURI	600.80	91.00					139
140	BILLINGS	46.60						140
141	GREAT FALLS							141
142	HELENA							142
143	MILES CITY	20.80	4.40					143
144	MISSOULA							144
145	LINCOLN-BEATRICE-FAIRBURY	26.70	4.10					145
146	NEBRASKA	1.73						146
147	NEVADA							147
148	NORTHWEST NEVADA							148
149	NEW HAMPSHIRE							149
150	NEW JERSEY	12.30						150
151	NE PENN.-UPPER DELAWARE VALLEY	322.20	44.40					151
152	ALBUQUERQUE-MID RIO GRANDE							152
153	EL PASO-LAS CRUCES-ALAMOGORDO							153
154	NORTHEASTERN PLAINS							154
155	PECOS-PERMIAN BASIN							155
156	SOUTHWESTERN MTS-AUGUSTINE PLAIN							156
157	UPPER RIO GRANDE VALLEY							157
158	CENTRAL NEW YORK	.50	.10					158
159	CHAMPLAIN VALLEY							159
160	GENESEE-FINGER LAKES	128.94	13.80					160
161	HUDSON VALLEY	3.87	.08					161
162	NIAGARA FRONTIER	191.90	4.00					162
163	SOUTHERN TIER EAST	107.10						163
164	SOUTHERN TIER WEST	480.40						164
165	EASTERN MOUNTAIN	1,009.60	20.70					165
166	EASTERN PIEDMONT	374.40						166
167	METROPOLITAN CHARLOTTE	650.70	22.30					167
168	NORTHERN COASTAL PLAIN							168

TABLE 3-B

(Contd) - ASH AND SULFUR COLLECTION AND DISPOSAL, BY AIR QUALITY CONTROL REGION, 1973

AQCR NO	AIR QUALITY CONTROL REGION	TOTAL ASH		TOTAL ELEMENTAL SULFUR		TOTAL SULFUR EQUIVALENT OF ACID		AQCR NO
		COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	
169	SANDHILLS	22.30	4.90					169
170	SOUTHERN COASTAL PLAIN	89.48	.01					170
171	WESTERN MOUNTAIN	103.80						171
172	NORTH DAKOTA	294.20	2.38					172
173	DAYTON	210.60	.30					173
174	GREATER METROPOLITAN CLEVELAND	980.10	8.70					174
175	MANSFIELD-MARION	7.00						175
176	METROPOLITAN COLUMBUS	23.13						176
177	NORTHWEST OHIO	1.90						177
178	NORTHWEST PENN.-YOUNGSTOWN	622.50	64.30					178
179	PARKERSBURG-MARIETTA	899.10	24.00					179
180	SANDUSKY	5.40						180
181	STEUBENVILLE-WEIRTON-WHEELING	2,356.70	215.00					181
182	WILMINGTON-CHILLICOTHE-LOGAN							182
183	ZANESVILLE-CAMBRIDGE	401.00	22.50					183
184	CENTRAL OKLAHOMA							184
185	NORTH CENTRAL OKLAHOMA							185
186	NORTHEASTERN OKLAHOMA							186
187	NORTHWESTERN OKLAHOMA							187
188	SOUTHEASTERN OKLAHOMA							188
189	SOUTHWESTERN OKLAHOMA							189
190	CENTRAL OREGON							190
191	EASTERN OREGON							191
192	NORTHWEST OREGON							192
193	PORTLAND	556.90						193
194	SOUTHWEST OREGON							194
195	CENTRAL PENNSYLVANIA	665.90						195
196	SOUTH CENTRAL PENNSYLVANIA	585.20	.30					196
197	SOUTHWEST PENNSYLVANIA	4,048.30	157.20					197
198	CAMDEN-SUMTER							198
199	CHARLESTON	105.76	.43					199
200	COLUMBIA	194.03						200
201	FLORENCE	28.00						201
202	GREENVILLE-SPARTANBURG	131.40						202
203	GREENWOOD							203
204	GEORGETOWN	61.20						204
205	BLACK HILLS-RAPID CITY	8.00						205
206	SOUTH DAKOTA							206
207	EASTERN TENN.-SOUTHWESTERN VA.	1,723.40	25.50					207
208	MIDDLE TENNESSEE	1,436.80	17.20					208
209	WESTERN TENNESSEE							209
210	ABILENE-WICHITA FALLS							210
211	AMARILLO-LUBBOCK							211
212	AUSTIN-WACO	473.10	13.70					212
213	BROWNSVILLE-LAREDO							213
214	CORPUS CHRISTI-VICTORIA							214
215	METROPOLITAN DALLAS-FORT WORTH							215
216	METROPOLITAN HOUSTON-GALVESTON							216
217	METROPOLITAN SAN ANTONIO							217
218	MIDLAND-ODESSA-SAN ANGELO							218
219	UTAH	33.00	.03					219
220	WASATCH FRONT	44.40						220
221	VERMONT							221
222	CENTRAL VIRGINIA	4.10						222
223	HAMPTON ROADS	44.00						223
224	NORTHEASTERN VIRGINIA	20.10						224
225	STATE CAPITAL	1.90						225
226	VALLEY OF VIRGINIA	125.09	12.10					226
227	NORTHERN WASHINGTON							227
228	OLYMPIA-NORTHWEST WASHINGTON							228
229	PUGET SOUND							229
230	SOUTH CENTRAL WASHINGTON							230
231	ALLEGHENY							231
232	CENTRAL WEST VIRGINIA							232
233	EASTERN PANHANDLE							233
234	KANAWHA VALLEY	661.30	55.10					234
235	NORTH CENTRAL WEST VIRGINIA	777.80	12.40					235
236	SOUTHERN WEST VIRGINIA							236
237	LAKE MICHIGAN	230.79	17.87					237
238	NORTH CENTRAL WISCONSIN	41.70	3.30					238
239	SOUTHEASTERN WISCONSIN	438.50						239
240	SOUTHERN WISCONSIN	14.70						240
241	CASPER	304.70	10.30					241
242	METROPOLITAN CHEYENNE							242
243	WYOMING	129.90						243
244	PUERTO RICO							244
245	AMERICAN SAMOA							245
246	GUAM							246
247	U. S. VIRGIN ISLANDS							247
	U.S. TOTALS	49,789.71	3,036.77					

TABLE 4-A

AIR QUALITY CONTROL EXPENSES, BY REGION AND STATE, 1973

LINE NO	GEOGRAPHIC REGION AND STATE	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)	ASH COLLECTION AND DISPOSAL		SULFUR PRODUCTS COLLECTION AND DISPOSAL		LINE NO
			EXPENSES ($1,000)	REVENUES ($1,000)	EXPENSES ($1,000)	REVENUES ($1,000)	
	NEW ENGLAND						
1	CONNECTICUT	666.83	208.62	1.40			1
2	MAINE			6.90			2
3	MASSACHUSETTS	663.50	249.33	17.30			3
4	NEW HAMPSHIRE	174.40	174.40	70.40			4
5	RHODE ISLAND	57.10	14.00				5
6	VERMONT						6
7	TOTALS	1,561.83	646.35	96.00			7
	MIDDLE ATLANTIC						
8	NEW JERSEY	311.60	311.60	18.20			8
9	NEW YORK	2,625.86	1,758.90	852.10			9
10	PENNSYLVANIA	16,539.15	15,034.95	172.20			10
11	TOTALS	19,476.61	17,105.45	1,042.50			11
	EAST NORTH CENTRAL						
12	ILLINOIS	10,217.42	9,639.83	34.61	453.60	.60	12
13	INDIANA	4,927.91	4,705.23	61.29	43.00		13
14	MICHIGAN	6,418.31	2,768.73	372.87			14
15	OHIO	9,490.20	9,042.00	145.00			15
16	WISCONSIN	3,852.33	3,846.33	35.40	6.00		16
17	TOTALS	34,906.17	30,002.12	649.17	502.60	.60	17
	WEST NORTH CENTRAL						
18	IOWA	1,037.70	1,024.70	.20			18
19	KANSAS	1,165.75	618.75		148.00		19
20	MINNESOTA	1,402.40	1,311.00	104.10			20
21	MISSOURI	11,078.01	2,091.51	285.35			21
22	NEBRASKA	137.57	137.57	1.04			22
23	NORTH DAKOTA	261.20	206.60	8.70			23
24	SOUTH DAKOTA	29.80	29.80				24
25	TOTALS	15,112.43	5,419.93	399.39	148.00		25
	SOUTH ATLANTIC						
26	DELAWARE	60.70	58.10	23.30			26
27	DISTRICT OF COLUMBIA	170.48	170.48				27
28	FLORIDA	1,875.70	1,755.70	848.60			28
29	GEORGIA	2,731.39	2,691.44	30.60			29
30	MARYLAND	3,502.80	3,497.60	2.30	5.20		30
31	NORTH CAROLINA	1,599.76	1,409.17	16.04			31
32	SOUTH CAROLINA	250.94	250.94				32
33	VIRGINIA	1,171.40	1,116.10				33
34	WEST VIRGINIA	1,538.40	1,525.90	4.40			34
35	TOTALS	12,901.57	12,475.43	925.24	5.20		35
	EAST SOUTH CENTRAL						
36	ALABAMA	3,490.74	3,428.14	10.70			36
37	KENTUCKY	3,574.74	3,390.94	75.00	152.00		37
38	MISSISSIPPI	182.47	180.60				38
39	TENNESSEE	2,849.00	2,849.00	91.60			39
40	TOTALS	10,096.95	9,848.68	177.30	152.00		40
	WEST SOUTH CENTRAL						
41	ARKANSAS						41
42	LOUISIANA						42
43	OKLAHOMA						43
44	TEXAS			18.60			44
45	TOTALS			18.60			45
	MOUNTAIN						
46	ARIZONA	74.60	71.60		3.00		46
47	COLORADO	872.39	867.12	5.65			47
48	IDAHO						48
49	MONTANA	92.20	47.70	28.60			49
50	NEVADA	644.46	388.02	34.46			50
51	NEW MEXICO	2,932.80	2,932.80				51
52	UTAH	175.19	175.19	.13			52
53	WYOMING	470.00	274.00	32.50			53
54	TOTALS	5,261.64	4,756.43	101.34	3.00		54
	PACIFIC						
55	CALIFORNIA	4,692.24	12.60				55
56	OREGON						56
57	WASHINGTON	398.45	278.45				57
58	TOTALS	5,090.69	291.05				58
	NON-CONTIGUOUS U.S.						
59	ALASKA						59
60	HAWAII	25.00	25.00				60
61	PUERTO RICO	133.13					61
62	VIRGIN ISLANDS						62
63	TOTALS	158.13	25.00				63
64	U.S. TOTALS	104,566.02	80,570.44	3,409.54	810.80	.60	64

TABLE 4-B

AIR QUALITY CONTROL EXPENSES, BY AIR QUALITY CONTROL REGION, 1973

AQCR NO	AIR QUALITY CONTROL REGION	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)	ASH COLLECTION AND DISPOSAL		SULFUR PRODUCTS COLLECTION AND DISPOSAL		AQCR NO
			EXPENSES ($1,000)	REVENUES ($1,000)	EXPENSES ($1,000)	REVENUES ($1,000)	
1	ALABAMA AND TOMBIGBEE RIVERS	12.80	12.80				1
2	COLUMBUS-PHENIX CITY						2
3	EAST ALABAMA	98.20	94.20				3
4	METROPOLITAN BIRMINGHAM	1,163.30	1,133.20	5.60			4
5	MOBILE-PENSAC.-PAN. CITY-SO MISS	1,886.50	1,809.70	.10			5
6	SOUTHEAST ALABAMA	.54	.54				6
7	TENN. RIV. VALLEY-CUMBERLAND MTS	1,444.00	1,444.00	5.00			7
8	COOK INLET						8
9	NORTHERN ALASKA						9
10	SOUTH CENTRAL ALASKA						10
11	SOUTHEASTERN ALASKA						11
12	ARIZONA-NEW MEX. SOUTHERN BORDER						12
13	CLARK-MOHAVE	644.46	388.02	34.46			13
14	FOUR CORNERS	3,007.40	3,004.40		3.00		14
15	PHOENIX-TUCSON						15
16	CENTRAL ARKANSAS						16
17	METROPOLITAN FORT SMITH						17
18	METROPOLITAN MEMPHIS	189.00	189.00	20.00			18
19	MONROE-EL DORADO						19
20	NORTHEAST ARKANSAS						20
21	NORTHWEST ARKANSAS						21
22	SHREVEPORT-TEXARKANA-TYLER						22
23	GREAT BASIN VALLEY						23
24	METROPOLITAN LOS ANGELES	481.04	12.60				24
25	NORTH CENTRAL COAST						25
26	NORTH COAST						26
27	NORTHEAST PLATEAU						27
28	SACRAMENTO VALLEY						28
29	SAN DIEGO	4,200.00					29
30	SAN FRANCISCO BAY AREA	4.00					30
31	SAN JOAQUIN VALLEY						31
32	SOUTH CENTRAL COAST						32
33	SOUTHEAST DESERT	7.20					33
34	COMANCHE						34
35	GRAND MESA	119.28	119.27				35
36	METROPOLITAN DENVER	656.42	651.17	5.65			36
37	PAWNEE						37
38	SAN ISABEL	63.99	63.98				38
39	SAN LUIS						39
40	YAMPA	32.70	32.70				40
41	EASTERN CONNECTICUT	124.90					41
42	HARTFORD-NEW HAVEN-SPRINGFIELD	393.13	114.95				42
43	NEW JERSEY-NEW YORK-CONNECTICUT	622.00	516.80	627.40			43
44	NORTHWESTERN CONNECTICUT						44
45	METROPOLITAN PHILADELPHIA	1,604.20	1,601.60	51.50			45
46	SOUTHERN DELAWARE	54.00	54.00				46
47	NATIONAL CAPITAL	3,189.68	3,156.98		5.20		47
48	CENTRAL FLORIDA	98.50	98.50	12.60			48
49	JACKSONVILLE-BRUNSWICK	123.60	123.60	3.00			49
50	SOUTHEAST FLORIDA	214.10	170.30	24.50			50
51	SOUTHWEST FLORIDA	49.60	49.00	3.30			51
52	WEST CENTRAL FLORIDA	557.10	529.80	808.20			52
53	AUGUSTA-AIKEN	17.47	17.47				53
54	CENTRAL GEORGIA	437.00	437.00	.60			54
55	CHATTANOOGA	1,393.00	1,374.00	9.00			55
56	METROPOLITAN ATLANTA	539.00	539.00	18.00			56
57	NORTHEAST GEORGIA						57
58	SAVANNAH-BEAUFORT	51.39	35.44				58
59	SOUTHWEST GEORGIA	236.00	231.00				59
60	HAWAII (ENTIRE STATE)	25.00	25.00				60
61	EASTERN IDAHO						61
62	EASTERN WASH.-NORTHERN IDAHO						62
63	IDAHO						63
64	METROPOLITAN BOISE						64
65	BURLINGTON-KEOKUK	909.98	909.98	24.51			65
66	EAST CENTRAL	39.50	39.50	.20			66
67	METROPOLITAN CHICAGO	7,004.40	6,533.40	14.30	472.00		67
68	METROPOLITAN DUBUQUE	112.10	112.10				68
69	METROPOLITAN QUAD CITIES	223.87	223.87				69
70	METROPOLITAN ST. LOUIS	9,816.55	1,069.45	165.10	24.60	.60	70
71	NORTH CENTRAL ILLINOIS	189.20	189.20				71
72	PADUCAH-CAIRO	2,384.90	2,384.90	18.80			72
73	ROCKFORD-JANESVILLE-BELOIT	212.30	212.30	10.60			73
74	SOUTHEAST ILLINOIS	400.39	300.40				74
75	WEST CENTRAL ILLINOIS	2,394.60	2,370.60				75
76	EAST CENTRAL INDIANA						76
77	EVANSVILLE-OWENSBORO-HENDERSON	812.10	812.10				77
78	LOUISVILLE	898.40	746.40	57.00	152.00		78
79	METROPOLITAN CINCINNATI	862.21	576.71	18.50			79
80	METROPOLITAN INDIANAPOLIS	302.70	302.70	16.30			80
81	NORTHEAST INDIANA						81
82	SOUTH BEND-ELKHART-BENTON HARBOR	94.98	67.30				82
83	SOUTHERN INDIANA	1,000.00	859.00	23.00			83
84	WABASH VALLEY	891.32	891.32	.09			84

TABLE 4-B

(Contd) - AIR QUALITY CONTROL EXPENSES, BY AIR QUALITY CONTROL REGION, 1973

AQCR NO	AIR QUALITY CONTROL REGION	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)	ASH COLLECTION AND DISPOSAL		SULFUR PRODUCTS COLLECTION AND DISPOSAL		AQCR NO
			EXPENSES ($1,000)	REVENUES ($1,000)	EXPENSES ($1,000)	REVENUES ($1,000)	
85	METROPOL. OMAHA-COUNCIL BLUFFS	158.64	158.64	.63			85
86	METROPOLITAN SIOUX CITY	152.00	152.00				86
87	METROPOLITAN SIOUX FALLS	8.70	8.70				87
88	NORTHEAST IOWA	230.20	216.20				88
89	NORTH CENTRAL IOWA	9.43	9.43				89
90	NORTHWEST IOWA	1.00	2.00				90
91	SOUTHEAST IOWA						91
92	SOUTH CENTRAL IOWA	294.60	294.60	.20			92
93	SOUTHWEST IOWA						93
94	METROPOLITAN KANSAS CITY	1,202.16	982.16	22.35			94
95	NORTHEAST KANSAS	285.00	138.00		147.00		95
96	NORTH CENTRAL KANSAS						96
97	NORTHWEST KANSAS						97
98	SOUTHEAST KANSAS	681.30	281.30		1.00		98
99	SOUTH CENTRAL KANSAS						99
100	SOUTHWEST KANSAS						100
101	APPALACHIAN	38.62	38.62				101
102	BLUEGRASS	37.80	6.00				102
103	HUNTINGTON-ASHL.-PORTSM.-IRONTON	1,345.00	1,302.00	84.00			103
104	NORTH CENTRAL KENTUCKY						104
105	SOUTH CENTRAL KENTUCKY	163.72	163.72				105
106	SOUTHERN LOUISIANA-SE TEXAS						106
107	ANOROSCOGGIN VALLEY						107
108	AROOSTOOK						108
109	DOWN EAST						109
110	METROPOLITAN PORTLAND			6.90			110
111	NORTHWEST MAINE						111
112	CENTRAL MARYLAND						112
113	CUMBERLAND-KEYSER	1,206.50	1,194.00				113
114	EASTERN SHORE						114
115	METROPOLITAN BALTIMORE	391.40	391.40	2.30			115
116	SOUTHERN MARYLAND	566.20	566.20				116
117	BERKSHIRE						117
118	CENTRAL MASSACHUSETTS						118
119	METROPOLITAN BOSTON	47.10	32.10	2.00			119
120	METROPOLITAN PROVIDENCE	614.10	202.90	15.30			120
121	MERRIMACK VALLEY-SOUTHERN N.H.	174.40	174.40	70.40			121
122	CENTRAL MICHIGAN	940.10	919.50	66.60			122
123	METROPOLITAN DETROIT-PORT HURON	4,196.78	1,515.98	286.00			123
124	METROPOLITAN TOLEDO	1,467.40	703.40				124
125	SOUTH CENTRAL MICHIGAN	388.27	210.90	20.27			125
126	UPPER MICHIGAN	73.06	65.06				126
127	CENTRAL MINNESOTA						127
128	SOUTHEAST MINNESOTA-LA CROSSE	329.40	323.40	15.60	6.00		128
129	DULUTH-SUPERIOR	216.25	211.45				129
130	METROPOLITAN FARGO-MOORHEAD						130
131	MINNEAPOLIS-ST. PAUL	1,064.80	979.30	53.30			131
132	NORTHWEST MINNESOTA	67.70	67.70	50.80			132
133	SOUTHWEST MINNESOTA	63.80	62.70				133
134	MISSISSIPPI DELTA	5.67	3.80				134
135	NORTHEAST MISSISSIPPI						135
136	NORTHERN PIEDMONT	32.00	32.00				136
137	NORTHERN MISSOURI	21.50	21.50				137
138	SOUTHEAST MISSOURI						138
139	SOUTHWEST MISSOURI	813.20	769.39	107.00			139
140	BILLINGS	21.30	21.30	24.20			140
141	GREAT FALLS						141
142	HELENA						142
143	MILES CITY	70.90	26.40	4.40			143
144	MISSOULA						144
145	LINCOLN-BEATRICE-FAIRBURY	21.23	21.23	.41			145
146	NEBRASKA						146
147	NEVADA						147
148	NORTHWEST NEVADA						148
149	NEW HAMPSHIRE						149
150	NEW JERSEY	22.50	22.50				150
151	NE PENN.-UPPER DELAWARE VALLEY	1,807.80	1,807.80	30.50			151
152	ALBUQUERQUE-MID RIO GRANDE						152
153	EL PASO-LAS CRUCES-ALAMOGORDO						153
154	NORTHEASTERN PLAINS						154
155	PECOS-PERMIAN BASIN						155
156	SOUTHWESTERN MTS-AUGUSTINE PLAIN						156
157	UPPER RIO GRANDE VALLEY						157
158	CENTRAL NEW YORK	22.00	22.00	100.00			158
159	CHAMPLAIN VALLEY						159
160	GENESEE-FINGER LAKES	523.90	427.90	19.10			160
161	HUDSON VALLEY	325.00	165.00	103.00			161
162	NIAGARA FRONTIER	229.50	229.50	4.00			162
163	SOUTHERN TIER EAST	291.60	287.30				163
164	SOUTHERN TIER WEST	918.56	330.90				164
165	EASTERN MOUNTAIN	408.42	390.63	11.86			165
166	EASTERN PIEDMONT	301.00	301.00				166
167	METROPOLITAN CHARLOTTE	345.30	340.50	2.80			167
168	NORTHERN COASTAL PLAIN						168

TABLE 4-B

(Contd) - AIR QUALITY CONTROL EXPENSES, BY AIR QUALITY CONTROL REGION, 1973

AQCR NO	AIR QUALITY CONTROL REGION	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)	ASH COLLECTION AND DISPOSAL		SULFUR PRODUCTS COLLECTION AND DISPOSAL		AQCR NO
			EXPENSES ($1,000)	REVENUES ($1,000)	EXPENSES ($1,000)	REVENUES ($1,000)	
169	SANDHILLS	79.70	79.70	.49			169
170	SOUTHERN COASTAL PLAIN	321.00	153.00	.89			170
171	WESTERN MOUNTAIN	112.34	112.34				171
172	NORTH DAKOTA	261.20	206.60	8.70			172
173	DAYTON	482.20	479.20	.10			173
174	GREATER METROPOLITAN CLEVELAND	3,200.50	3,199.80	5.50			174
175	MANSFIELD-MARION	16.00	16.00				175
176	METROPOLITAN COLUMBUS	10.50	10.50				176
177	NORTHWEST OHIO	.40	.40				177
178	NORTHWEST PENN.-YOUNGSTOWN	2,200.40	1,809.40	17.60			178
179	PARKERSBURG-MARIETTA	179.10	179.10	.50			179
180	SANDUSKY	20.40	20.10				180
181	STEUBENVILLE-WEIRTON-WHEELING	2,141.60	2,016.60	21.30			181
182	WILMINGTON-CHILLICOTHE-LOGAN						182
183	ZANESVILLE-CAMBRIDGE	380.30	378.60	5.60			183
184	CENTRAL OKLAHOMA						184
185	NORTH CENTRAL OKLAHOMA						185
186	NORTHEASTERN OKLAHOMA						186
187	NORTHWESTERN OKLAHOMA						187
188	SOUTHEASTERN OKLAHOMA						188
189	SOUTHWESTERN OKLAHOMA						189
190	CENTRAL OREGON						190
191	EASTERN OREGON						191
192	NORTHWEST OREGON						192
193	PORTLAND	398.45	278.45				193
194	SOUTHWEST OREGON						194
195	CENTRAL PENNSYLVANIA	726.30	700.10				195
196	SOUTH CENTRAL PENNSYLVANIA	736.00	736.00	.30			196
197	SOUTHWEST PENNSYLVANIA	10,431.05	9,344.05	131.40			197
198	CAMDEN-SUMTER						198
199	CHARLESTON	39.52	39.52				199
200	COLUMBIA	47.15	47.15				200
201	FLORENCE	10.00	10.00				201
202	GREENVILLE-SPARTANBURG	82.80	82.80				202
203	GREENWOOD						203
204	GEORGETOWN	24.00	24.00				204
205	BLACK HILLS-RAPID CITY	21.10	21.10				205
206	SOUTH DAKOTA						206
207	EASTERN TENN.-SOUTHWESTERN VA.	1,457.00	1,457.00	51.00			207
208	MIDDLE TENNESSEE	1,203.00	1,203.00	20.60			208
209	WESTERN TENNESSEE						209
210	ABILENE-WICHITA FALLS						210
211	AMARILLO-LUBBOCK						211
212	AUSTIN-WACO			18.60			212
213	BROWNSVILLE-LAREDO						213
214	CORPUS CHRISTI-VICTORIA						214
215	METROPOLITAN DALLAS-FORT WORTH						215
216	METROPOLITAN HOUSTON-GALVESTON						216
217	METROPOLITAN SAN ANTONIO						217
218	MIDLAND-ODESSA-SAN ANGELO						218
219	UTAH	83.00	83.00	.13			219
220	WASATCH FRONT	92.19	92.19				220
221	VERMONT						221
222	CENTRAL VIRGINIA						222
223	HAMPTON ROADS	259.40	239.60				223
224	NORTHEASTERN VIRGINIA	51.80	49.80				224
225	STATE CAPITAL	131.50	125.50				225
226	VALLEY OF VIRGINIA	1.80	1.80				226
227	NORTHERN WASHINGTON						227
228	OLYMPIA-NORTHWEST WASHINGTON						228
229	PUGET SOUND						229
230	SOUTH CENTRAL WASHINGTON						230
231	ALLEGHENY						231
232	CENTRAL WEST VIRGINIA						232
233	EASTERN PANHANDLE						233
234	KANAWHA VALLEY						234
235	NORTH CENTRAL WEST VIRGINIA	509.70	509.70	3.90			235
236	SOUTHERN WEST VIRGINIA						236
237	LAKE MICHIGAN	420.58	420.58	6.80			237
238	NORTH CENTRAL WISCONSIN	28.70	28.70	2.40			238
239	SOUTHEASTERN WISCONSIN	2,754.40	2,754.40				239
240	SOUTHERN WISCONSIN	161.00	161.00				240
241	CASPER	341.00	145.00	32.50			241
242	METROPOLITAN CHEYENNE						242
243	WYOMING	129.00	129.00				243
244	PUERTO RICO	133.13					244
245	AMERICAN SAMOA						245
246	GUAM						246
247	U. S. VIRGIN ISLANDS						247
	U.S. TOTALS	104,566.02	80,570.44	3,409.54	810.80	.60	

TABLE 5-A

INSTALLED COSTS OF AIR POLLUTION CONTROL EQUIPMENT, BY REGION AND STATE, 1973

LINE NO	GEOGRAPHIC REGION AND STATE	INSTALLED COSTS ($1,000)					LINE NO
		MECHANICAL PRECIPITATORS	ELECTROSTATIC PRECIPITATORS	COMBINED PRECIPITATORS	DESULFURIZATION SYSTEMS	STACKS	
	NEW ENGLAND						
1	CONNECTICUT	280.00	6,045.79	2,384.00		4,697.86	1
2	MAINE	260.70		187.00		670.80	2
3	MASSACHUSETTS	151.40	14,195.60	344.00	4,000.00	5,623.91	3
4	NEW HAMPSHIRE		766.00	332.00		867.90	4
5	RHODE ISLAND	281.00	256.80			320.20	5
6	VERMONT						6
7	TOTALS	973.10	21,264.19	3,247.00	4,000.00	12,180.67	7
	MIDDLE ATLANTIC						
8	NEW JERSEY	561.40	10,947.70	3,994.60		6,665.60	8
9	NEW YORK	4,506.71	68,962.18	27,827.00		20,863.12	9
10	PENNSYLVANIA	12,940.65	36,506.46	23,373.40		23,421.97	10
11	TOTALS	18,008.76	116,416.34	55,195.00		50,950.69	11
	EAST NORTH CENTRAL						
12	ILLINOIS	2,055.40	78,307.81	980.00	21,800.00	22,522.36	12
13	INDIANA	1,383.30	33,063.15	10,322.50		13,685.46	13
14	MICHIGAN	3,723.20	47,857.01	16,451.20		16,646.30	14
15	OHIO	2,322.00	44,495.20	12,822.20		40,906.10	15
16	WISCONSIN	2,997.10	16,283.00	1,620.00	300.00	12,259.48	16
17	TOTALS	12,481.00	220,006.17	42,195.90	22,100.00	106,019.70	17
	WEST NORTH CENTRAL						
18	IOWA	2,076.10	12,707.00	230.00		3,878.46	18
19	KANSAS	535.91	842.00			4,742.59	19
20	MINNESOTA	831.59	6,968.37			10,869.98	20
21	MISSOURI	692.70	28,345.96	961.20		14,443.86	21
22	NEBRASKA	982.50	647.00	776.00		1,132.42	22
23	NORTH DAKOTA	620.95				1,592.62	23
24	SOUTH DAKOTA	64.00				285.29	24
25	TOTALS	5,803.75	49,510.33	1,967.20		36,945.22	25
	SOUTH ATLANTIC						
26	DELAWARE	253.00	200.00	996.00		1,232.00	26
27	DISTRICT OF COLUMBIA	270.00	116.00	1,925.00		520.00	27
28	FLORIDA	2,562.40	7,178.00		800.00	11,359.25	28
29	GEORGIA	161.40	4,875.00			6,315.20	29
30	MARYLAND	2,370.00	13,362.00	3,035.00	6,307.00	11,455.00	30
31	NORTH CAROLINA	1,270.90	59,998.00	17,459.00		5,460.02	31
32	SOUTH CAROLINA	983.64	13,784.61			3,410.25	32
33	VIRGINIA	1,472.00	14,706.00	3,393.00		2,576.50	33
34	WEST VIRGINIA	1,009.00	56,280.00	673.00		31,061.00	34
35	TOTALS	10,352.34	170,499.61	27,481.00	7,107.00	73,389.22	35
	EAST SOUTH CENTRAL						
36	ALABAMA	3,193.51	21,962.10	2,429.90		8,026.80	36
37	KENTUCKY	1,197.67	24,424.96	8,771.30	3,760.00	13,041.56	37
38	MISSISSIPPI		2,121.70			1,400.16	38
39	TENNESSEE	1,242.40	25,978.80	7,933.00		11,591.50	39
40	TOTALS	5,633.58	74,487.56	19,134.20	3,760.00	34,060.02	40
	WEST SOUTH CENTRAL						
41	ARKANSAS					894.65	41
42	LOUISIANA					1,536.10	42
43	OKLAHOMA					1,175.80	43
44	TEXAS		3,451.00			6,392.93	44
45	TOTALS		3,451.00			9,999.48	45
	MOUNTAIN						
46	ARIZONA	240.80			6,553.00	902.03	46
47	COLORADO	534.66	7,579.00	5,900.06		3,500.66	47
48	IDAHO						48
49	MONTANA	49.00	1,030.00			351.20	49
50	NEVADA	93.00				489.00	50
51	NEW MEXICO	359.40	12,529.00			1,503.43	51
52	UTAH	173.88		680.75		484.81	52
53	WYOMING	11,130.33	814.00			1,913.48	53
54	TOTALS	12,581.07	21,952.00	6,580.81	6,553.00	9,144.61	54
	PACIFIC						
55	CALIFORNIA	2,631.00			1,343.00	34,499.18	55
56	OREGON					48.90	56
57	WASHINGTON		10,249.00			2,237.00	57
58	TOTALS	2,631.00	10,249.00		1,343.00	36,785.08	58
	NON-CONTIGUOUS U.S.						
59	ALASKA						59
60	HAWAII	54.25				987.79	60
61	PUERTO RICO						61
62	VIRGIN ISLANDS						62
63	TOTALS	54.25				987.79	63
64	U.S. TOTALS	68,518.85	687,836.20	155,801.11	44,863.00	370,462.48	64

TABLE 5-B

INSTALLED COSTS OF AIR POLLUTION CONTROL EQUIPMENT, BY AIR QUALITY REGION, 1973

AQCR NO	AIR QUALITY CONTROL REGION	INSTALLED COSTS ($1,000)					AQCR NO
		MECHANICAL PRECIPITATORS	ELECTROSTATIC PRECIPITATORS	COMBINED PRECIPITATORS	DESULFURIZATION SYSTEMS	STACKS	
1	ALABAMA AND TOMBIGBEE RIVERS	37.00				132.00	1
2	COLUMBUS-PHENIX CITY						2
3	EAST ALABAMA		567.60			11.00	3
4	METROPOLITAN BIRMINGHAM	1,072.00	9,400.00			3,604.00	4
5	MOBILE-PENSAC.-PAN. CITY-SO MISS	1,357.01	10,141.70			4,634.29	5
6	SOUTHEAST ALABAMA	40.60				52.80	6
7	TENN. RIV. VALLEY-CUMBERLAND MTS	792.90	8,428.50	2,429.90		1,827.00	7
8	COOK INLET						8
9	NORTHERN ALASKA						9
10	SOUTH CENTRAL ALASKA						10
11	SOUTHEASTERN ALASKA						11
12	ARIZONA-NEW MEX. SOUTHERN BORDER					44.80	12
13	CLARK-MOHAVE	93.00				348.00	13
14	FOUR CORNERS	600.20	12,529.00		6,553.00	1,268.70	14
15	PHOENIX-TUCSON					728.03	15
16	CENTRAL ARKANSAS					245.00	16
17	METROPOLITAN FORT SMITH						17
18	METROPOLITAN MEMPHIS		8,298.00				18
19	MONROE-EL DORADO					123.25	19
20	NORTHEAST ARKANSAS					517.20	20
21	NORTHWEST ARKANSAS					29.00	21
22	SHREVEPORT-TEXARKANA-TYLER					924.96	22
23	GREAT BASIN VALLEY						23
24	METROPOLITAN LOS ANGELES	2,631.00				4,915.78	24
25	NORTH CENTRAL COAST				830.00	8,060.00	25
26	NORTH COAST					498.00	26
27	NORTHEAST PLATEAU						27
28	SACRAMENTO VALLEY						28
29	SAN DIEGO					486.00	29
30	SAN FRANCISCO BAY AREA				513.00	15,682.00	30
31	SAN JOAQUIN VALLEY					684.00	31
32	SOUTH CENTRAL COAST					4,108.00	32
33	SOUTHEAST DESERT					65.40	33
34	COMANCHE						34
35	GRAND MESA	288.30		275.83		431.20	35
36	METROPOLITAN DENVER	161.16		5,357.93		1,405.36	36
37	PAWNEE						37
38	SAN ISABEL	85.20	7,000.00	266.30		1,449.10	38
39	SAN LUIS						39
40	YAMPA		579.00			215.00	40
41	EASTERN CONNECTICUT		539.00			931.00	41
42	HARTFORD-NEW HAVEN-SPRINGFIELD	280.00	3,587.94	1,182.00		3,363.13	42
43	NEW JERSEY-NEW YORK-CONNECTICUT	3,646.12	10,297.07	32,516.60		21,740.89	43
44	NORTHWESTERN CONNECTICUT						44
45	METROPOLITAN PHILADELPHIA	1,532.50	6,597.70	7,675.00		3,513.60	45
46	SOUTHERN DELAWARE			996.00		686.00	46
47	NATIONAL CAPITAL	270.00	4,171.00	3,594.00	6,307.00	2,156.00	47
48	CENTRAL FLORIDA	966.10				3,642.90	48
49	JACKSONVILLE-BRUNSWICK					1,332.55	49
50	SOUTHEAST FLORIDA	1,490.30			800.00	2,174.00	50
51	SOUTHWEST FLORIDA					236.30	51
52	WEST CENTRAL FLORIDA		2,724.00			3,041.00	52
53	AUGUSTA-AIKEN	98.05	1,196.75			214.18	53
54	CENTRAL GEORGIA					1,083.00	54
55	CHATTANOOGA		4,875.00			4,986.00	55
56	METROPOLITAN ATLANTA						56
57	NORTHEAST GEORGIA						57
58	SAVANNAH-BEAUFORT	453.59	1,677.04			509.59	58
59	SOUTHWEST GEORGIA						59
60	HAWAII (ENTIRE STATE)	54.25				987.79	60
61	EASTERN IDAHO						61
62	EASTERN WASH.-NORTHERN IDAHO						62
63	IDAHO						63
64	METROPOLITAN BOISE						64
65	BURLINGTON-KEOKUK	38.00	6,281.91			8,203.84	65
66	EAST CENTRAL	168.60	1,420.00			282.90	66
67	METROPOLITAN CHICAGO		45,081.95		15,000.00	7,297.00	67
68	METROPOLITAN DUBUQUE	241.50				256.40	68
69	METROPOLITAN QUAD CITIES	149.50	5,001.00			626.86	69
70	METROPOLITAN ST. LOUIS	447.00	30,232.00	980.00	6,800.00	14,121.00	70
71	NORTH CENTRAL ILLINOIS	219.00	3,118.00			405.00	71
72	PADUCAH-CAIRO	1,526.45	20,169.36	8,050.60		3,689.11	72
73	ROCKFORD-JANESVILLE-BELOIT	166.00	179.00			456.00	73
74	SOUTHEAST ILLINOIS		3,256.00			267.92	74
75	WEST CENTRAL ILLINOIS	164.80	9,317.90			3,059.40	75
76	EAST CENTRAL INDIANA		500.00				76
77	EVANSVILLE-OWENSBORO-HENDERSON	596.00	8,547.60	1,519.70		5,566.80	77
78	LOUISVILLE		11,451.00		3,760.00	4,384.00	78
79	METROPOLITAN CINCINNATI	140.00	5,989.00	1,162.00		4,735.50	79
80	METROPOLITAN INDIANAPOLIS	417.20	3,061.20	6,133.50		1,787.46	80
81	NORTHEAST INDIANA						81
82	SOUTH BEND-ELKHART-BENTON HARBOR	153.40	726.00			236.00	82
83	SOUTHERN INDIANA			3,390.00		2,886.00	83
84	WABASH VALLEY	294.70	6,522.00			1,494.00	84

TABLE 5-B

(Contd) - INSTALLED COSTS OF AIR POLLUTION CONTROL EQUIPMENT, BY AIR QUALITY REGION, 1973

AQCR NO	AIR QUALITY CONTROL REGION	INSTALLED COSTS ($1,000) MECHANICAL PRECIPITATORS	ELECTROSTATIC PRECIPITATORS	COMBINED PRECIPITATORS	DESULFURIZATION SYSTEMS	STACKS	AQCR NO
85	METROPOL. OMAHA-COUNCIL BLUFFS	1,000.50	64T.00	T76.00		1,09T.80	85
86	METROPOLITAN SIOUX CITY		4,051.00			5T2.50	86
8T	METROPOLITAN SIOUX FALLS	36.00				284.00	8T
88	NORTHEAST IOWA	484.80	3,038.00			T61.10	88
89	NORTH CENTRAL IOWA	56.40				42.60	89
90	NORTHWEST IOWA	21.40				27.T0	90
91	SOUTHEAST IOWA						91
92	SOUTH CENTRAL IOWA	981.00	250.00	230.00		1,318.00	92
93	SOUTHWEST IOWA						93
94	METROPOLITAN KANSAS CITY	89T.10	5,643.00	961.20		3,707.11	94
95	NORTHEAST KANSAS	1T0.00				573.00	95
96	NORTH CENTRAL KANSAS					56.30	96
9T	NORTHWEST KANSAS					69.00	97
98	SOUTHEAST KANSAS	145.91				2,849.9T	98
99	SOUTH CENTRAL KANSAS					34T.40	99
100	SOUTHWEST KANSAS					75.00	100
101	APPALACHIAN	19.96				11.85	101
102	BLUEGRASS	323.26	T2T.00			1,229.30	102
103	HUNTINGTON-ASHL.-PORTSM.-IRONTON		T,4T3.00	2,6T5.00		12,869.00	103
104	NORTH CENTRAL KENTUCKY						104
105	SOUTH CENTRAL KENTUCKY	1T0.00	2,216.00			10T.00	105
106	SOUTHERN LOUISIANA-SE TEXAS					1,9T5.40	106
10T	ANOROSCOGGIN VALLEY	T9.90		18T.00		237.90	107
108	AROOSTOOK						108
109	DOWN EAST					42.40	109
110	METROPOLITAN PORTLAND	180.80				390.50	110
111	NORTHWEST MAINE						111
112	CENTRAL MARYLAND						112
113	CUMBERLAND-KEYSER	180.00	25,324.00			4,414.00	113
114	EASTERN SHORE	134.00				86.00	114
115	METROPOLITAN BALTIMORE	2,056.00	6,104.00	3,035.00		T,051.00	115
116	SOUTHERN MARYLAND		3,448.00			3,123.00	116
11T	BERKSHIRE						11T
118	CENTRAL MASSACHUSETTS					46.03	118
119	METROPOLITAN BOSTON		6,613.20		4,000.00	3,044.58	119
120	METROPOLITAN PROVIDENCE	432.40	7,205.20			1,875.50	120
121	MERRIMACK VALLEY-SOUTHERN N.H.		T66.00	332.00		867.90	121
122	CENTRAL MICHIGAN	454.10	8,558.60	150.00		1,960.00	122
123	METROPOLITAN DETROIT-PORT HURON	2,614.00	16,268.00	15,3T4.20		6,023.50	123
124	METROPOLITAN TOLEDO	216.50	18,961.80	1,61T.20		T,151.30	124
125	SOUTH CENTRAL MICHIGAN	119.60	1,910.41	150.00		2,15T.80	125
126	UPPER MICHIGAN	119.00	4,481.00			243.00	126
12T	CENTRAL MINNESOTA						127
128	SOUTHEAST MINNESOTA-LA CROSSE	18T.59	1,189.3T		300.00	6,243.28	128
129	DULUTH-SUPERIOR	391.00				1,80T.83	129
130	METROPOLITAN FARGO-MOORHEAD						130
131	MINNEAPOLIS-ST. PAUL	158.40	4,640.00			3,416.00	131
132	NORTHWEST MINNESOTA	292.40	1,950.00			148.70	132
133	SOUTHWEST MINNESOTA	52.00				169.00	133
134	MISSISSIPPI DELTA					98.3T	134
135	NORTHEAST MISSISSIPPI						135
136	NORTHERN PIEDMONT	93.00	3,693.00			5T.98	136
13T	NORTHERN MISSOURI	15.60				213.T2	13T
138	SOUTHEAST MISSOURI					26.00	138
139	SOUTHWEST MISSOURI		2,046.96	TTT.00		1,424.95	139
140	BILLINGS		1,030.00			308.00	140
141	GREAT FALLS						141
142	HELENA						142
143	MILES CITY	49.00				43.20	143
144	MISSOULA						144
145	LINCOLN-BEATRICE-FAIRBURY	169.00				1T3.20	145
146	NEBRASKA					167.42	146
14T	NEVADA						14T
148	NORTHWEST NEVADA					141.00	148
149	NEW HAMPSHIRE						149
150	NEW JERSEY	T5.90	96T.20			645.30	150
151	NE PENN.-UPPER DELAWARE VALLEY		3,432.00	3,395.00		1,202.50	151
152	ALBUQUERQUE-MID RIO GRANDE					1T9.40	152
153	EL PASO-LAS CRUCES-ALAMOGORDO					153.00	153
154	NORTHEASTERN PLAINS						154
155	PECOS-PERMIAN BASIN					66.53	155
156	SOUTHWESTERN MTS-AUGUSTINE PLAIN						156
15T	UPPER RIO GRANDE VALLEY						15T
158	CENTRAL NEW YORK	341.30				222.90	158
159	CHAMPLAIN VALLEY						159
160	GENESEE-FINGER LAKES	98.99	2,260.90	197.00		753.21	160
161	HUDSON VALLEY	31T.10	2,9T3.00			824.00	161
162	NIAGARA FRONTIER		30,T50.00			1,730.10	162
163	SOUTHERN TIER EAST	106.90	4,T1T.36			148.1T	163
164	SOUTHERN TIER WEST	108.30	24,600.00			1,T62.78	164
165	EASTERN MOUNTAIN	222.00	16,195.00	3,612.00		2,090.24	165
166	EASTERN PIEDMONT	5T1.50		1,TT9.00		T09.50	166
16T	METROPOLITAN CHARLOTTE		34,146.00	9,488.00		T56.60	16T
168	NORTHERN COASTAL PLAIN						168

TABLE 5-B

(Contd) - INSTALLED COSTS OF AIR POLLUTION CONTROL EQUIPMENT, BY AIR QUALITY REGION, 1973

AQCR NO	AIR QUALITY CONTROL REGION	INSTALLED COSTS ($1,000)					AQCR NO
		MECHANICAL PRECIPITATORS	ELECTROSTATIC PRECIPITATORS	COMBINED PRECIPITATORS	DESULFURIZATION SYSTEMS	STACKS	
169	SANDHILLS	90.60				78.40	169
170	SOUTHERN COASTAL PLAIN	293.80	3,050.00	2,580.00		1,262.10	170
171	WESTERN MOUNTAIN		2,914.00			505.20	171
172	NORTH DAKOTA	620.95				1,592.62	172
173	DAYTON	283.00	5,183.00	1,334.00		451.00	173
174	GREATER METROPOLITAN CLEVELAND	68.00	7,105.40	3,425.00		5,178.80	174
175	MANSFIELD-MARION		450.00			10.00	175
176	METROPOLITAN COLUMBUS	180.00				165.00	176
177	NORTHWEST OHIO						177
178	NORTHWEST PENN.-YOUNGSTOWN	172.00	2,804.96	2,156.00		1,878.18	178
179	PARKERSBURG-MARIETTA	759.00	407.00	1,885.00		1,697.00	179
180	SANDUSKY						180
181	STEUBENVILLE-WEIRTON-WHEELING	553.00	24,268.00	724.00		23,888.00	181
182	WILMINGTON-CHILLICOTHE-LOGAN						182
183	ZANESVILLE-CAMBRIDGE	287.00	2,752.00			3,834.00	183
184	CENTRAL OKLAHOMA					627.70	184
185	NORTH CENTRAL OKLAHOMA					24.30	185
186	NORTHEASTERN OKLAHOMA					265.10	186
187	NORTHWESTERN OKLAHOMA						187
188	SOUTHEASTERN OKLAHOMA					258.70	188
189	SOUTHWESTERN OKLAHOMA						189
190	CENTRAL OREGON						190
191	EASTERN OREGON						191
192	NORTHWEST OREGON						192
193	PORTLAND		10,249.00			2,105.90	193
194	SOUTHWEST OREGON						194
195	CENTRAL PENNSYLVANIA	12,034.65	4,725.00	4,016.30		3,077.79	195
196	SOUTH CENTRAL PENNSYLVANIA		3,914.00	1,035.00		1,457.00	196
197	SOUTHWEST PENNSYLVANIA		21,788.00	5,750.10		14,287.00	197
198	CAMDEN-SUMTER						198
199	CHARLESTON	406.80	354.00			1,554.54	199
200	COLUMBIA		2,319.82			877.72	200
201	FLORENCE	89.60				105.60	201
202	GREENVILLE-SPARTANBURG	97.00	7,814.00			56.82	202
203	GREENWOOD						203
204	GEORGETOWN		423.00			338.00	204
205	BLACK HILLS-RAPID CITY	28.00				1.29	205
206	SOUTH DAKOTA						206
207	EASTERN TENN.-SOUTHWESTERN VA.	465.40	9,905.80	2,409.00		3,185.00	207
208	MIDDLE TENNESSEE	960.00	7,775.00	5,524.00		8,867.50	208
209	WESTERN TENNESSEE						209
210	ABILENE-WICHITA FALLS					158.06	210
211	AMARILLO-LUBBOCK					218.06	211
212	AUSTIN-WACO		3,451.00			1,381.75	212
213	BROWNSVILLE-LAREDO					563.90	213
214	CORPUS CHRISTI-VICTORIA					656.30	214
215	METROPOLITAN DALLAS-FORT WORTH					1,519.58	215
216	METROPOLITAN HOUSTON-GALVESTON						216
217	METROPOLITAN SAN ANTONIO					289.72	217
218	MIDLAND-ODESSA-SAN ANGELO					186.50	218
219	UTAH	173.88				119.89	219
220	WASATCH FRONT			680.75		364.92	220
221	VERMONT						221
222	CENTRAL VIRGINIA	28.00				19.50	222
223	HAMPTON ROADS	682.00	877.00	1,296.00		574.00	223
224	NORTHEASTERN VIRGINIA	356.00	7,576.00			166.00	224
225	STATE CAPITAL	16.00	4,414.00	428.00		829.00	225
226	VALLEY OF VIRGINIA	207.00				27.00	226
227	NORTHERN WASHINGTON						227
228	OLYMPIA-NORTHWEST WASHINGTON						228
229	PUGET SOUND					180.00	229
230	SOUTH CENTRAL WASHINGTON						230
231	ALLEGHENY						231
232	CENTRAL WEST VIRGINIA						232
233	EASTERN PANHANDLE						233
234	KANAWHA VALLEY		16,445.00			8,906.00	234
235	NORTH CENTRAL WEST VIRGINIA	889.00	8,846.00	673.00		8,759.00	235
236	SOUTHERN WEST VIRGINIA						236
237	LAKE MICHIGAN	2,413.80	3,142.00			7,377.25	237
238	NORTH CENTRAL WISCONSIN	21.00	3,077.00			94.00	238
239	SOUTHEASTERN WISCONSIN		9,253.00			3,037.00	239
240	SOUTHERN WISCONSIN	199.00		1,620.00		277.00	240
241	CASPER	10,784.00				991.00	241
242	METROPOLITAN CHEYENNE						242
243	WYOMING	346.33	814.00			922.48	243
244	PUERTO RICO						244
245	AMERICAN SAMOA						245
246	GUAM						246
247	U. S. VIRGIN ISLANDS						247
	U.S. TOTALS	68,518.85	687,836.20	155,801.11	44,863.00	370,462.48	

TABLE 6-A

NUMBER OF PLANTS, CAPACITIES, AND TYPES OF COOLING BY REGION AND STATE, 1973

LINE NO	GEOGRAPHIC REGION AND STATE	ONCE THROUGH FRESH		ONCE THROUGH SALINE		COOLING PONDS		COOLING TOWERS		COMBINED SYSTEMS		LINE NO
		NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	
	NEW ENGLAND											
1	CONNECTICUT	3	1,478.55	5	1,659.60					2	1,497.40	1
2	MAINE	1	57.45	3	1,191.00							2
3	MASSACHUSETTS	5	637.84	11	6,033.20			1	35.95	2	648.00	3
4	NEW HAMPSHIRE			1	178.75					1	459.24	4
5	RHODE ISLAND			2	277.90							5
6	VERMONT											6
7	TOTALS	9	2,173.84	22	9,340.45			1	35.95	5	2,604.64	7
	MIDDLE ATLANTIC											
8	NEW JERSEY	3	1,269.40	13	5,751.40					1	76.45	8
9	NEW YORK	14	4,908.46	17	12,047.50							9
10	PENNSYLVANIA	30	9,621.89	1	474.75			4	6,329.70	4	2,438.90	10
11	TOTALS	47	15,799.75	31	18,273.65			4	6,329.70	5	2,515.35	11
	EAST NORTH CENTRAL											
12	ILLINOIS	26	14,306.56			4	3,681.01	2	212.30	2	3,078.00	12
13	INDIANA	20	9,883.75					3	160.65	4	2,437.90	13
14	MICHIGAN	26	11,873.45					2	190.00	1	386.00	14
15	OHIO	27	16,154.87			2	68.83	2	269.50	2	2,750.10	15
16	WISCONSIN	21	6,193.43							1	41.50	16
17	TOTALS	120	58,412.06			6	3,749.84	9	832.45	10	8,693.50	17
	WEST NORTH CENTRAL											
18	IOWA	14	2,068.30			1	92.20	7	457.20	2	391.55	18
19	KANSAS	4	528.63			1	893.40	10	2,158.30	5	908.50	19
20	MINNESOTA	10	1,443.79					2	58.85	7	2,454.61	20
21	MISSOURI	11	6,413.54			1	563.10	6	557.50	2	407.50	21
22	NEBRASKA	7	1,576.50					2	258.65	2	146.50	22
23	NORTH DAKOTA	3	488.00			1	256.50	1	36.00			23
24	SOUTH DAKOTA							3	155.00			24
25	TOTALS	49	12,518.76			4	1,805.20	31	3,681.50	18	4,308.66	25
	SOUTH ATLANTIC											
26	DELAWARE			2	470.00			1	37.50	1	800.00	26
27	DISTRICT OF COLUMBIA	1	270.00							1	718.35	27
28	FLORIDA	12	1,986.90	20	8,413.18	1	2,324.00	4	332.08	3	3,148.00	28
29	GEORGIA	6	3,613.00	3	579.90			1	1,595.00	1	953.00	29
30	MARYLAND	2	679.50	7	3,969.10					1	229.50	30
31	NORTH CAROLINA	5	4,698.00			4	3,300.75			3	1,356.47	31
32	SOUTH CAROLINA	4	1,811.70	1	97.75	1	975.32	2	617.00	5	1,776.20	32
33	VIRGINIA	8	3,310.82	4	2,773.24			1	712.50			33
34	WEST VIRGINIA	8	3,337.50					4	7,052.60	1	1,662.48	34
35	TOTALS	46	19,707.42	37	16,303.17	6	6,600.07	13	10,346.68	16	10,644.00	35
	EAST SOUTH CENTRAL											
36	ALABAMA	12	8,711.27									36
37	KENTUCKY	12	5,029.80					5	2,514.30	2	2,752.20	37
38	MISSISSIPPI	2	1,405.23					3	379.85	4	1,850.55	38
39	TENNESSEE	8	10,066.90									39
40	TOTALS	34	25,213.20					8	2,894.15	6	4,602.75	40
	WEST SOUTH CENTRAL											
41	ARKANSAS	5	1,953.84					3	573.00			41
42	LOUISIANA	9	5,810.36	2	1,183.25	2	447.00	12	2,109.77	1	483.38	42
43	OKLAHOMA	2	235.90			1	1,134.00	8	2,541.80	3	1,027.48	43
44	TEXAS	9	2,093.62	3	1,808.50	23	13,064.85	31	6,975.65	12	9,219.82	44
45	TOTALS	25	10,093.72	5	2,991.75	26	14,645.85	54	12,200.22	16	10,730.68	45
	MOUNTAIN											
46	ARIZONA					1	113.60	8	1,783.94	2	138.00	46
47	COLORADO	1	25.00			1	281.75	5	1,660.00	6	443.25	47
48	IDAHO											48
49	MONTANA	3	291.80									49
50	NEVADA					1	220.00	4	2,019.15	1	133.00	50
51	NEW MEXICO					1	2,269.80	11	1,604.70	2	77.30	51
52	UTAH	2	84.00					2	417.64			52
53	WYOMING							3	766.80	1	750.30	53
54	TOTALS	6	400.80			4	2,885.15	33	8,252.23	12	1,541.85	54
	PACIFIC											
55	CALIFORNIA			22	17,589.65			14	3,369.61	1	2,028.90	55
56	OREGON	2	107.80									56
57	WASHINGTON	3	978.00	1	59.00			1	1,329.80			57
58	TOTALS	5	1,085.80	23	17,648.65			15	4,699.41	1	2,028.90	58
	NON-CONTIGUOUS U.S.											
59	ALASKA											59
60	HAWAII			3	542.88					1	395.00	60
61	PUERTO RICO			3	2,437.20							61
62	VIRGIN ISLANDS											62
63	TOTALS			6	2,980.08					1	395.00	63
64	U.S. TOTALS	341	145,405.35	124	67,537.75	46	29,686.11	168	49,272.29	90	48,065.33	64

TABLE 6-B

NUMBER OF PLANTS, CAPACITIES, AND TYPES OF COOLING BY WATER RESOURCE REGION, 1973

LINE NO	WATER RESOURCE REGION	ONCE THROUGH FRESH		ONCE THROUGH SALINE		COOLING PONDS		COOLING TOWERS		COMBINED SYSTEMS		LINE NO
		NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	
1	NEW ENGLAND	10	2,209.84	25	11,348.99			1	35.95	5	2,604.64	1
2	MIDDLE ATLANTIC	35	12,275.29	40	21,828.85			2	1,679.20	8	4,197.68	2
3	SOUTH ATLANTIC - GULF	37	17,553.01	25	10,739.43	5	6,186.44	9	2,857.93	13	8,449.02	3
4	GREAT LAKES	64	28,025.93			2	68.83	2	190.00	1	386.00	4
5	OHIO	70	35,846.15			1	99.00	19	14,897.35	9	9,668.20	5
6	TENNESSEE	10	11,058.19			1	413.63	1	712.50			6
7	UPPER MISSISSIPPI	50	16,811.50			4	3,674.21	8	478.55	10	5,259.96	7
8	LOWER MISSISSIPPI	14	9,901.96	2	1,183.25			11	2,125.27	4	1,118.58	8
9	SOURIS - RED - RAINY	1	110.00							1	136.90	9
10	MISSOURI	28	5,427.32			4	1,994.75	17	2,553.80	6	1,508.65	10
11	ARKANSAS - WHITE - RED	6	2,922.74			7	2,963.50	30	6,444.22	11	2,888.13	11
12	TEXAS - GULF	9	2,093.62	2	1,547.50	18	10,495.55	20	4,307.49	10	8,220.82	12
13	RIO GRANDE							15	2,827.99	2	164.30	13
14	UPPER COLORADO					1	2,269.80	3	659.20	3	142.50	14
15	LOWER COLORADO					1	113.60	12	2,324.59	2	138.00	15
16	GREAT BASIN	2	84.00			1	220.00	3	2,478.84	1	133.00	16
17	COLUMBIA - NORTH PACIFIC	5	1,085.80	1	59.00			1	1,329.80			17
18	CALIFORNIA - SOUTH PACIFIC			22	17,589.65			14	3,369.61	2	2,085.15	18
19	TOTALS - CONTIGUOUS U.S.	341	145,405.35	117	64,296.67	45	28,499.31	168	49,272.29	88	47,101.53	19
20	ALASKA									1	568.80	20
21	HAWAII			3	542.88					1	395.00	21
22	PUERTO RICO			3	2,437.20							22
23	TOTALS - NON-CONTIGUOUS U.S.			7	3,241.08	1	1,186.80			2	963.80	23
24	TOTALS - UNITED STATES	341	145,405.35	124	67,537.75	46	29,686.11	168	49,272.29	90	48,065.33	24

TABLE 7-A

AVERAGE COOLING WATER USE, BY REGION AND STATE, 1973

LINE NO	GEOGRAPHIC REGION AND STATE	TOTAL DESIGNED CONDENSER FLOW (CFS)		AVERAGE RATE OF WATER USE DURING THE YEAR (CFS)						LINE NO
				WITHDRAWAL		CONSUMPTION		DISCHARGE		
		FRESH	SALINE	FRESH	SALINE	FRESH	SALINE	FRESH	SALINE	
	NEW ENGLAND									
1	CONNECTICUT	3,155.80	3,464.65	2,664.50	2,663.35	4.00		2,660.50	2,663.35	1
2	MAINE	107.00	1,493.70	62.00	1,080.65		.13	62.00	1,080.52	2
3	MASSACHUSETTS	1,922.90	6,185.89	1,593.30	4,128.90	.40		1,592.90	4,128.90	3
4	NEW HAMPSHIRE	416.00	245.00	444.00	252.40	8.60	2.20	435.40	250.20	4
5	RHODE ISLAND		759.00		650.00				662.00	5
6	VERMONT									6
7	TOTALS	5,601.70	12,148.24	4,763.80	8,775.30	13.00	2.33	4,750.80	8,784.97	7
	MIDDLE ATLANTIC									
8	NEW JERSEY	2,193.60	9,578.88	2,043.00	7,631.00	20.40		2,043.00	7,631.00	8
9	NEW YORK	7,428.50	17,690.40	6,491.87	11,215.00	4.77		6,486.39	11,215.00	9
10	PENNSYLVANIA	21,559.20	872.00	12,260.80	527.00	301.22		12,143.97	527.00	10
11	TOTALS	31,181.30	28,141.28	20,795.67	19,373.00	326.39		20,673.36	19,373.00	11
	EAST NORTH CENTRAL									
12	ILLINOIS	31,368.61		14,379.22		89.60		14,297.37		12
13	INDIANA	17,708.43		15,190.33		23.83		15,687.40		13
14	MICHIGAN	18,434.60		14,943.07		49.76		14,892.18		14
15	OHIO	26,538.75		19,629.45		25.10		19,604.35		15
16	WISCONSIN	10,504.33		7,144.60		52.62		7,092.40		16
17	TOTALS	104,554.72		71,286.67		240.91		71,573.70		17
	WEST NORTH CENTRAL									
18	IOWA	4,273.36		2,642.09		98.65		2,544.44		18
19	KANSAS	6,047.16		1,713.02		49.79		1,628.22		19
20	MINNESOTA	5,469.50		2,861.98		30.11		2,831.87		20
21	MISSOURI	7,072.63		4,342.72		4.15		4,338.58		21
22	NEBRASKA	2,946.30		1,721.15		4.17		1,716.98		22
23	NORTH DAKOTA	805.34		458.84		4.25		454.69		23
24	SOUTH DAKOTA	347.30		1.38		.98		.40		24
25	TOTALS	26,961.59		13,741.18		192.10		13,515.18		25
	SOUTH ATLANTIC									
26	DELAWARE	42.30	2,207.00		2,078.00				2,078.00	26
27	DISTRICT OF COLUMBIA	2,314.00		508.00		8.00		500.00		27
28	FLORIDA	10,270.78	14,211.75	3,991.08	12,543.69	7.08	2.64	3,984.33	12,541.05	28
29	GEORGIA	5,058.00	2,075.08	5,117.50	1,323.80	50.50		5,067.00	1,323.80	29
30	MARYLAND	982.50	7,363.60	690.80	6,134.70	.42	5.80	690.70	6,128.90	30
31	NORTH CAROLINA	11,091.00		7,009.56		31.36		6,979.90		31
32	SOUTH CAROLINA	6,343.84	201.32	5,260.52	210.67	7.73		5,252.79	210.67	32
33	VIRGINIA	4,872.66	5,082.10	3,422.44	3,583.90	9.61		3,412.86	3,583.90	33
34	WEST VIRGINIA	11,853.72		5,933.53		97.66		5,839.13		34
35	TOTALS	52,828.80	31,140.85	31,933.43	25,874.76	212.36	8.44	31,726.71	25,866.32	35
	EAST SOUTH CENTRAL									
36	ALABAMA	10,638.86		8,625.15		34.00		8,591.15		36
37	KENTUCKY	12,594.91		6,348.03		116.68		6,234.30		37
38	MISSISSIPPI	2,496.81	1,035.00	1,431.37	1,117.70	9.42		1,421.95	1,117.70	38
39	TENNESSEE	12,658.90		10,122.00		70.00		10,052.00		39
40	TOTALS	38,389.48	1,035.00	26,526.55	1,117.70	230.10		26,299.40	1,117.70	40
	WEST SOUTH CENTRAL									
41	ARKANSAS	2,986.35		1,670.55		3.73		1,666.82		41
42	LOUISIANA	10,271.37	1,492.40	5,880.99	560.00	190.14		5,696.91	560.00	42
43	OKLAHOMA	6,619.22		309.72		49.82		262.46		43
44	TEXAS	43,086.23	2,476.50	14,904.53	1,835.90	197.39	9.00	14,746.44	1,826.90	44
45	TOTALS	62,963.17	3,968.90	22,765.79	2,395.90	441.08	9.00	22,372.63	2,386.90	45
	MOUNTAIN									
46	ARIZONA	2,016.00		193.59		35.69		157.17		46
47	COLORADO	3,256.87		346.75		44.91		302.84		47
48	IDAHO									48
49	MONTANA	239.70		130.00		.10		129.90		49
50	NEVADA	2,234.70		60.96		25.36		35.59		50
51	NEW MEXICO	4,949.27		176.87		53.17		123.87		51
52	UTAH	1,261.50		126.63		3.03		123.60		52
53	WYOMING	1,174.66		298.00		25.60		271.20		53
54	TOTALS	15,132.70		1,332.80		187.86		1,144.17		54
	PACIFIC									
55	CALIFORNIA	6,705.40	18,667.80	1,270.88	14,431.24	37.67	19.27	1,233.23	14,412.77	55
56	OREGON	278.70		93.60				93.60		56
57	WASHINGTON	3,400.00	131.00	860.05	28.98	18.70		841.35	28.98	57
58	TOTALS	10,384.10	18,798.80	2,224.53	14,460.22	56.37	19.27	2,168.18	14,441.75	58
	NON-CONTIGUOUS U.S.									
59	ALASKA									59
60	HAWAII		2,027.00		1,571.00				1,550.00	60
61	PUERTO RICO		3,657.00		3,649.34				3,649.34	61
62	VIRGIN ISLANDS									62
63	TOTALS		5,684.00		5,220.34				5,199.34	63
64	U.S. TOTALS	347,997.56	100,917.07	195,370.42	77,217.22	1,900.17	39.04	194,224.13	77,169.98	64

TABLE 7-B

AVERAGE COOLING WATER USE, BY WATER RESOURCE REGION, 1973

LINE NO	WATER RESOURCE REGION	TOTAL DESIGNED CONDENSER FLOW (CFS)		AVERAGE RATE OF WATER USE DURING THE YEAR (CFS)						LINE NO
				WITHDRAWAL		CONSUMPTION		DISCHARGE		
		FRESH	SALINE	FRESH	SALINE	FRESH	SALINE	FRESH	SALINE	
1	NEW ENGLAND	5,601.70	14,359.12	4,763.80	10,643.30	13.00	2.33	4,750.80	10,652.97	1
2	MIDDLE ATLANTIC	21,872.26	36,843.10	16,621.45	26,961.60	251.95	5.80	16,569.84	26,955.80	2
3	SOUTH ATLANTIC - GULF	39,254.T8	21,263.15	26,539.74	1T,535.86	98.T6	2.64	26,441.3I	17,533.22	3
4	GREAT LAKES	48,226.61		33,501.54		95.35		33,405.48		4
5	OHIO	73,262.95		47,000.T2		406.87		47,132.80		5
6	TENNESSEE	14,682.10		11,497.40		87.50		11,411.60		6
T	UPPER MISSISSIPPI	3T,106.55		17,549.32		129.15		17,423.I7		7
8	LOWER MISSISSIPPI	13,520.33	1,492.40	8,926.77	560.00	198.91		8,735.99	560.00	8
9	SOURIS - RED - RAINY	365.80		315.08		.11		314.97		9
10	MISSOURI	13,156.34		7,776.92		128.31		7,610.51		10
11	ARKANSAS - WHITE - RED	I9,843.18		4,485.38		104.25		4,383.19		11
12	TEXAS - GULF	33,683.63	2,151.50	13,038.01	1,520.90	16T.27	9.00	12,910.50	1,511.90	12
13	RIO GRANDE	5,475.44		90.06		30.16		59.22		13
14	UPPER COLORADO	3,447.90		242.64		46.14		I96.50		14
15	LOWER COLORADO	2,T93.13		204.94		45.66		158.36		15
16	GREAT BASIN	3,086.10		192.04		35.04		157.00		16
17	COLUMBIA - NORTH PACIFIC	3,678.70	131.00	953.65	28.98	18.70		934.95	28.98	17
18	CALIFORNIA - SOUTH PACIFIC	6,T81.06	18,667.80	1,271.86	14,431.24	38.14	19.27	1,233.T4	14,412.77	18
19	TOTALS - CONTIGUOUS U.S.	345,838.56	94,908.0T	194,971.32	T1,681.88	1,895.2T	39.04	193,829.93	T1,655.64	19
20	ALASKA	645.00		388.50		4.90		383.60		20
21	HAWAII		2,027.00		1,571.00				1,550.00	21
22	PUERTO RICO		3,657.00		3,649.34				3,649.34	22
23	TOTALS - NON-CONTIGUOUS U.S.	2,159.00	6,009.00	399.10	5,535.34	4.90		394.20	5,514.34	23
24	TOTALS - UNITED STATES	34T,997.56	100,917.0T	195,3T0.42	TT,21T.22	1,900.17	39.04	194,224.13	7T,169.98	24

TABLE 8-A

USE OF CHEMICAL ADDITIVES, BY REGION AND STATE, 1973

LINE NO	GEOGRAPHIC REGION AND STATE	COOLING WATER ADDITIVES (TONS)				BOILER WATER ADDITIVES (TONS)					LINE NO
		PHOSPHATE	LIME	ALUM	CHLORINE	PHOSPHATE	CAUSTIC SODA	LIME	ALUM	CHLORINE	
	NEW ENGLAND										
1	CONNECTICUT				806.55	17.94	86.33				1
2	MAINE			12.40		3.91	64.42		4.46		2
3	MASSACHUSETTS	4.44		12.80	318.46	27.97	859.24	2.25	13.05	.97	3
4	NEW HAMPSHIRE				26.00	.57	118.33				4
5	RHODE ISLAND				16.01	29.40	8.37				5
6	VERMONT										6
7	TOTALS	4.44		25.20	1,167.02	79.79	1,136.69	2.25	17.51	.97	7
	MIDDLE ATLANTIC										
8	NEW JERSEY	.06	.18		2,656.99	31.91	2,345.99	11.46	404.20	1.00	8
9	NEW YORK				3,141.60	231.78	5,570.55	238.94	61.24	1.13	9
10	PENNSYLVANIA	1.43	6,402.11	52.41	1,605.19	32.59	5,650.62	116.97	279.33	8.02	10
11	TOTALS	1.49	6,402.29	52.41	7,403.78	296.28	13,567.16	367.37	744.77	10.15	11
	EAST NORTH CENTRAL										
12	ILLINOIS		8.00	30.85	4,046.98	123.49	5,346.48	922.48	226.82	.50	12
13	INDIANA	6.80	279.80	30.00	1,112.35	25.23	992.49	1,480.91	75.98	17.78	13
14	MICHIGAN	.01			1,042.89	44.86	2,601.72	526.21	251.23	17.41	14
15	OHIO	39.56	1,854.37	478.82	1,523.52	23.21	3,556.76	301.03	1.45	25.40	15
16	WISCONSIN				380.31	69.58	868.63	50.93	16.23	4.08	16
17	TOTALS	46.37	2,142.17	539.67	8,106.05	286.37	13,366.08	3,281.56	571.71	65.17	17
	WEST NORTH CENTRAL										
18	IOWA	.18	290.37	62.87	346.21	12.51	391.29	239.45	17.35	.06	18
19	KANSAS	102.26	560.69	7.76	245.23	9.60	360.72	116.13	1.04	1.82	19
20	MINNESOTA	1.46			236.78	32.00	342.96	123.25	13.17	.96	20
21	MISSOURI	21.45	251.56	61.84	82.02	65.37	4,653.82	1,428.30	.85	182.14	21
22	NEBRASKA	4.00	1,360.00	80.64	48.98	4.87	252.04	394.25	54.52		22
23	NORTH DAKOTA				1.38	1.18	266.07	125.51	18.73	.59	23
24	SOUTH DAKOTA	11.68	487.10	51.20	7.55	.68	37.40				24
25	TOTALS	141.03	2,949.72	264.31	968.15	126.21	6,304.30	2,426.89	105.66	185.57	25
	SOUTH ATLANTIC										
26	DELAWARE				72.36	9.81	428.02	20.67		13.64	26
27	DISTRICT OF COLUMBIA			137.15	56.20	.57	133.58				27
28	FLORIDA	3.87			847.33	44.93	3,941.67	590.78	32.26	10.56	28
29	GEORGIA				432.33	2.24	1,143.97	9.25	465.32	11.10	29
30	MARYLAND	.28			1,400.60	.44	317.83	24.70	94.32	.05	30
31	NORTH CAROLINA	10.00		853.49	58.10	18.73			58.09	4.00	31
32	SOUTH CAROLINA				20.53	8.11	1,092.55		182.50	5.71	32
33	VIRGINIA			95.29	355.15	17.28	783.65	8.75	105.00	3.55	33
34	WEST VIRGINIA		15.00		265.85	5.82	1,428.56	82.85	78.60	4.80	34
35	TOTALS	14.15	15.00	1,085.93	3,508.45	107.93	9,269.83	737.00	1,016.09	53.41	35
	EAST SOUTH CENTRAL										
36	ALABAMA				2.09	4.61	421.20	4.00	142.32	9.52	36
37	KENTUCKY		34.39	62.15	490.15	14.89	963.43	49.10	100.60	10.58	37
38	MISSISSIPPI	2.90	67.36		105.60	4.11	373.76	10.28		.45	38
39	TENNESSEE				172.56	16.28	846.82		101.85	3.14	39
40	TOTALS	2.90	101.75	62.15	770.40	39.89	2,605.21	63.38	344.77	23.69	40
	WEST SOUTH CENTRAL										
41	ARKANSAS		473.99	153.13	121.54	2.57	162.51		8.15	1.51	41
42	LOUISIANA	6.26		10.23	204.12	20.09	3,200.32	1,090.40	142.61	4.90	42
43	OKLAHOMA	104.89	30.89	10.21	157.91	5.05	853.49	24.65	49.00	10.00	43
44	TEXAS	70.43	3,611.28	204.04	2,608.23	41.44	7,465.66	379.00	15.09	18.16	44
45	TOTALS	181.58	4,116.16	377.61	3,091.80	69.15	11,681.98	1,494.05	214.85	34.57	45
	MOUNTAIN										
46	ARIZONA	107.18			86.23	1.59	349.58	34.39			46
47	COLORADO	19.23	203.69	165.70	20.25	19.36	115.20	52.43	28.16		47
48	IDAHO										48
49	MONTANA					.23	.11	9.70	1.18	.31	49
50	NEVADA	28.15	2,598.25		385.64	2.12	61.96			55.00	50
51	NEW MEXICO	31.14	202.45	17.65	92.67	6.48	165.88	136.65	27.53	.03	51
52	UTAH	.40			31.00	6.34	1.06				52
53	WYOMING	16.32			17.65	1.48	40.70	36.50	37.50		53
54	TOTALS	202.42	3,004.39	183.35	633.44	37.60	734.49	269.67	94.37	55.34	54
	PACIFIC										
55	CALIFORNIA	101.81			1,082.64	47.05	1,120.89	419.23			55
56	OREGON					2.09	10.43				56
57	WASHINGTON				36.00	7.31	224.40		5.45		57
58	TOTALS	101.81			1,118.64	56.45	1,355.72	419.23	5.45		58
	NON-CONTIGUOUS U.S.										
59	ALASKA										59
60	HAWAII					2.18	.37				60
61	PUERTO RICO				4.50	6.56	1,357.58				61
62	VIRGIN ISLANDS										62
63	TOTALS				4.50	8.74	1,357.95				63
64	U.S. TOTALS	696.19	18,731.48	2,590.63	26,772.23	1,108.41	61,379.41	9,061.40	3,115.18	428.87	64

TABLE 8-B

USE OF CHEMICAL ADDITIVES, BY WATER RESOURCES REGION, 1973

LINE NO	WATER RESOURCE REGION	COOLING WATER ADDITIVES (TONS)				BOILER WATER ADDITIVES (TONS)					LINE NO
		PHOSPHATE	LIME	ALUM	CHLORINE	PHOSPHATE	CAUSTIC SODA	LIME	ALUM	CHLORINE	
1	NEW ENGLAND	4.44		25.20	1,209.02	83.04	1,138.78	2.25	17.51	.97	1
2	MIDDLE ATLANTIC	.34	.18	270.95	8,639.48	294.74	12,115.00	60.47	823.11	16.71	2
3	SOUTH ATLANTIC - GULF	13.87		853.49	1,451.55	83.96	6,493.88	610.28	825.90	40.99	3
4	GREAT LAKES	.01			2,623.07	150.76	5,828.37	962.70	308.18	22.62	4
5	OHIO	47.79	8,585.67	584.87	2,989.32	77.57	8,792.95	2,191.09	381.89	66.71	5
6	TENNESSEE				301.56	13.08	365.35		125.49	4.74	6
7	UPPER MISSISSIPPI	.24	202.15	84.10	4,200.80	190.86	6,667.25	1,330.26	229.91	182.42	7
8	LOWER MISSISSIPPI	9.63	104.41	163.36	335.25	23.25	3,659.55	1,094.43	150.76	6.11	8
9	SOURIS - RED - RAINY	1.40			4.28	.72	.87		8.38	.73	9
10	MISSOURI	60.36	2,504.78	207.44	286.68	43.88	1,644.86	1,104.20	118.82	1.11	10
11	ARKANSAS - WHITE - RED	204.94	2,709.38	191.46	410.50	22.99	3,753.49	686.31	16.98	12.97	11
12	TEXAS - GULF	47.06	1,818.33	118.59	2,303.29	34.55	6,861.34	369.00	15.09	10.23	12
13	RIO GRANDE	54.13	202.45	19.70	84.92	7.07	85.69	17.10			13
14	UPPER COLORADO	14.84	3.69	65.70	69.00	2.50	168.78	131.13	55.69	.03	14
15	LOWER COLORADO	135.33	2,598.25		456.08	3.08	349.76	34.39		55.00	15
16	GREAT BASIN				39.79	6.80	102.13	36.50			16
17	COLUMBIA - NORTH PACIFIC				36.00	9.40	234.83		5.45		17
18	CALIFORNIA - SOUTH PACIFIC	101.81	2.19	5.77	1,084.14	50.97	1,654.71	431.29	32.02	7.53	18
19	TOTALS - CONTIGUOUS U.S.	696.19	18,731.48	2,590.63	26,524.73	1,099.22	59,917.59	9,061.40	3,115.18	428.87	19
20	ALASKA				69.00		22.50				20
21	HAWAII					2.18	.37				21
22	PUERTO RICO				4.50	6.56	1,357.58				22
23	TOTALS - NON-CONTIGUOUS U.S.				247.50	9.19	1,461.82				23
24	TOTALS - UNITED STATES	696.19	18,731.48	2,590.63	26,772.23	1,108.41	61,379.41	9,061.40	3,115.18	428.87	24

TABLE 9-A

WATER TREATMENT EXPENSES AND COOLING FACILITY COSTS BY WATER RESOURCE REGION, 1973

LINE NO	GEOGRAPHIC REGION AND STATE	COSTS OF INSTALLED FACILITIES ($1,000)				ANNUAL EXPENSES ($1,000)				LINE NO
		COOLING WATER				COOLING WATER		BOILER WATER MAKEUP & BLOWDOWN TREATMENT		
		ONCE THROUGH FRESH	ONCE THROUGH SALINE	COOLING PONDS	COOLING TOWERS	OPERATION MAINTENANCE	CHEMICAL ADDITIONS	OPERATION MAINTENANCE	CHEMICAL ADDITIONS	
	NEW ENGLAND									
1	CONNECTICUT	1.56	8,718.33		4,628.18	1,113.55	103.11	645.84	143.09	1
2	MAINE		14,773.70			2.42	8.10	2.64	37.87	2
3	MASSACHUSETTS	3,592.05	19,786.35		371.24	753.37	89.07	726.48	228.01	3
4	NEW HAMPSHIRE	1,924.00	1,889.00	2,400.00		324.20	8.70	85.50	36.00	4
5	RHODE ISLAND		3,090.00			2.50	4.00	5.50	10.80	5
6	VERMONT									6
7	TOTALS	5,517.61	48,257.38	2,400.00	4,999.42	2,196.04	212.98	1,465.96	455.77	7
	MIDDLE ATLANTIC									
8	NEW JERSEY	4,632.40	30,499.30	125.70	252.70	1,110.60	247.45	1,322.60	594.08	8
9	NEW YORK	34,363.90	43,687.55			2,963.42	273.19	2,676.05	1,406.28	9
10	PENNSYLVANIA	41,614.17		42.80	36,725.20	2,083.70	704.39	2,532.70	2,158.73	10
11	TOTALS	80,610.47	74,186.85	168.50	36,977.90	6,157.72	1,225.03	6,531.35	4,159.09	11
	EAST NORTH CENTRAL									
12	ILLINOIS	110,525.60		47,279.00	2,887.00	2,378.10	459.33	3,917.13	1,592.21	12
13	INDIANA	37,437.30			7,587.60	1,772.47	223.68	2,038.61	347.61	13
14	MICHIGAN	25,636.00		1,100.00	1,486.80	1,232.72	63.52	6,669.75	707.98	14
15	OHIO	66,173.80			9,726.00	3,736.80	304.17	2,483.12	777.73	15
16	WISCONSIN	21,749.70		36.00	65.00	1,924.60	153.37	784.22	291.41	16
17	TOTALS	261,522.40		48,415.00	21,752.40	11,044.69	1,204.07	15,892.83	3,716.94	17
	WEST NORTH CENTRAL									
18	IOWA	10,401.00		314.00	3,783.42	564.75	189.88	634.65	307.94	18
19	KANSAS	4,669.24		7,453.00	16,940.89	767.44	420.34	436.86	177.62	19
20	MINNESOTA	17,802.00		282.00	6,115.30	965.27	135.20	466.36	109.39	20
21	MISSOURI	41,169.30		1,237.00	3,221.99	1,328.78	121.42	1,448.31	600.06	21
22	NEBRASKA	11,665.20			2,987.80	164.18	157.06	177.21	128.26	22
23	NORTH DAKOTA	2,341.80		850.00	153.90	76.10	7.00	128.20	106.20	23
24	SOUTH DAKOTA	2,337.00			945.00	112.20	54.50	51.20	9.50	24
25	TOTALS	90,385.54		10,136.00	34,148.30	3,978.72	1,085.40	3,342.79	1,438.97	25
	SOUTH ATLANTIC									
26	DELAWARE		2,918.00			363.22	26.50	101.90	116.85	26
27	DISTRICT OF COLUMBIA	1,677.00			920.00	128.40	128.40	38.30	38.30	27
28	FLORIDA	11,422.70	43,042.50	5,699.00	9,064.74	1,173.29	243.22	1,298.05	605.12	28
29	GEORGIA	811.50	1,555.30		7,470.00	645.40	49.30	1,159.30	136.30	29
30	MARYLAND	3,167.00	32,795.00		469.00	1,094.20	55.00	565.90	21.60	30
31	NORTH CAROLINA	12,898.80		16,311.80	2,380.80	1,099.35	89.41	101.13	42.87	31
32	SOUTH CAROLINA	7,448.09	37.00	6,731.25	7,628.33	85.33	19.05	84.08	187.13	32
33	VIRGINIA	13,452.00	32,293.00		985.00	1,640.80	68.76	830.10	125.27	33
34	WEST VIRGINIA	2,645.00		6,523.00	39,472.00	708.00	146.53	321.10	371.14	34
35	TOTALS	53,522.09	112,640.80	35,265.05	68,389.87	6,937.99	826.17	4,499.86	1,644.58	35
	EAST SOUTH CENTRAL									
36	ALABAMA	26,850.50				431.80	10.38	687.40	433.58	36
37	KENTUCKY	40,739.04			10,394.72	570.57	155.34	546.63	228.95	37
38	MISSISSIPPI	6,818.20	5,880.40	3,027.50	1,891.78	603.00	86.32	88.50	91.47	38
39	TENNESSEE	19,385.00				210.00	21.00	394.00	149.00	39
40	TOTALS	93,792.74	5,880.40	3,027.50	12,286.50	1,815.37	273.04	1,716.53	903.00	40
	WEST SOUTH CENTRAL									
41	ARKANSAS	9,892.77		395.90	1,827.20	180.91	111.51	41.36	53.84	41
42	LOUISIANA	18,443.90	5,325.30	1,911.50	14,450.74	254.90	108.26	1,079.05	789.43	42
43	OKLAHOMA	1,077.20		9,799.40	7,505.18	268.90	280.10	78.30	62.30	43
44	TEXAS	2,503.80	5,668.00	57,818.88	37,047.06	2,096.77	882.36	882.93	1,015.06	44
45	TOTALS	31,917.67	10,993.30	69,925.68	60,830.18	2,801.48	1,382.23	2,081.64	1,920.63	45
	MOUNTAIN									
46	ARIZONA	356.92		730.00	7,937.03	160.05	170.60	208.07	66.49	46
47	COLORADO	1,766.00		1,426.00	5,758.00	456.16	310.03	174.00	73.08	47
48	IDAHO									48
49	MONTANA	1,502.70				30.80		31.20	3.15	49
50	NEVADA	118.00		1,328.00	1,308.00	707.74	350.72	882.99	151.96	50
51	NEW MEXICO	150.00		11,280.00	10,845.44	402.50	124.87	1,157.70	146.31	51
52	UTAH	76.08			2,286.06	100.00	129.70	72.30	17.20	52
53	WYOMING	3,232.00			5,580.70	110.00	75.80	95.70	44.44	53
54	TOTALS	7,201.70		14,764.00	33,715.23	1,967.25	1,161.72	2,621.96	502.63	54
	PACIFIC									
55	CALIFORNIA	3,342.00	92,879.40	7,873.00	23,266.90	2,398.43	581.58	1,879.28	418.26	55
56	OREGON	332.00				19.03		10.64	7.26	56
57	WASHINGTON	3,556.00	103.00		9,892.00	149.00	54.00	360.55	57.83	57
58	TOTALS	7,230.00	92,982.40	7,873.00	33,158.90	2,566.46	635.58	2,250.47	483.35	58
	NON-CONTIGUOUS U.S.									
59	ALASKA									59
60	HAWAII		8,763.52			159.00		77.00	63.06	60
61	PUERTO RICO						27.05		235.85	61
62	VIRGIN ISLANDS									62
63	TOTALS		8,763.52			159.00	27.05	77.00	298.91	63
64	U.S. TOTALS	631,700.22	353,704.65	191,974.73	306,258.70	39,624.72	8,033.27	40,480.39	15,523.87	64

TABLE 9-B

WATER TREATMENT EXPENSES AND COOLING FACILITY COSTS BY REGION AND STATE, 1973

LINE NO	WATER RESOURCE REGION	COSTS OF INSTALLED FACILITIES ($1,000)				ANNUAL EXPENSES ($1,000)				LINE NO
		COOLING WATER				COOLING WATER		BOILER WATER MAKEUP & BLOWDOWN TREATMENT		
		ONCE THROUGH FRESH	ONCE THROUGH SALINE	COOLING PONDS	COOLING TOWERS	OPERATION MAINTENANCE	CHEMICAL ADDITIONS	OPERATION MAINTENANCE	CHEMICAL ADDITIONS	
1	NEW ENGLAND	5,517.61	58,269.38	2,400.00	4,999.42	2,756.04	218.98	1,757.96	662.77	1
2	MIDDLE ATLANTIC	45,144.60	106,503.85	6,691.50	10,503.90	6,501.84	909.54	6,368.45	3,461.99	2
3	SOUTH ATLANTIC - GULF	50,241.59	76,192.20	26,010.05	27,582.87	3,743.82	458.44	3,162.33	1,408.99	3
4	GREAT LAKES	106,513.13		1,100.00	1,486.80	5,011.94	355.88	9,024.63	1,164.27	4
5	OHIO	152,970.98		3,115.00	97,930.32	6,960.76	1,327.56	4,746.11	2,337.17	5
6	TENNESSEE	33,052.00		2,732.00	985.00	523.95	64.81	1,568.53	331.87	6
7	UPPER MISSISSIPPI	124,614.20		44,796.00	6,635.62	3,526.88	690.03	4,672.26	2,004.47	7
8	LOWER MISSISSIPPI	33,379.87	5,325.30	4,423.40	15,291.32	861.42	165.90	1,110.77	881.58	8
9	SOURIS - RED - RAINY	1,339.00			542.00	54.50	2.54	51.37	8.24	9
10	MISSOURI	38,601.50		9,706.00	18,618.44	1,566.56	743.99	1,704.53	544.88	10
11	ARKANSAS - WHITE - RED	23,424.94		14,625.46	30,968.32	1,760.94	834.35	765.10	561.59	11
12	TEXAS - GULF	2,503.80	4,046.00	48,507.32	24,020.96	1,552.42	559.41	639.33	829.52	12
13	RIO GRANDE				10,682.70	504.80	246.29	217.60	126.41	13
14	UPPER COLORADO	1,087.00		11,629.00	6,322.11	305.10	107.30	1,079.29	136.81	14
15	LOWER COLORADO	356.92		730.00	9,481.77	607.12	500.92	528.96	79.30	15
16	GREAT BASIN	194.08		1,328.00	4,388.25	355.57	143.60	671.50	185.35	16
17	COLUMBIA - NORTH PACIFIC	3,888.00	103.00		9,892.00	168.03	54.00	371.19	65.09	17
18	CALIFORNIA - SOUTH PACIFIC	3,342.00	92,879.40	7,873.00	23,266.90	2,398.43	581.58	1,879.28	418.26	18
19	TOTALS - CONTIGUOUS U.S.	626,171.22	343,319.13	185,666.73	303,598.70	39,160.12	7,965.12	40,319.19	15,208.56	19
20	ALASKA	5,529.00			2,660.00	284.70	11.70	51.50	3.10	20
21	HAWAII		8,763.52			159.00		77.00	63.06	21
22	PUERTO RICO						27.05		235.85	22
23	TOTALS - NON-CONTIGUOUS U.S.	5,529.00	10,385.52	6,308.00	2,660.00	464.60	68.15	161.20	315.31	23
24	TOTALS - UNITED STATES	631,700.22	353,704.65	191,974.73	306,258.70	39,624.72	8,033.27	40,480.39	15,523.87	24

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	ALABAMA ELECTRIC COOP.	ALABAMA ELECTRIC COOP.	ALABAMA POWER CO.	ALABAMA POWER CO.	ALABAMA POWER CO.
4	NAME OF PLANT	MCWILLIAMS	TOMBIGBEE	BARRY	CHICKASAW	GASOSEN
5	UTILITY-PLANT CODE	004000-0200	004000-0500	004500-0200	004500-0400	004500-0500
6	STATE	ALABAMA	ALABAMA	ALABAMA	ALABAMA	ALABAMA
7	COUNTY	COVINGTON	WASHINGTON	MOBILE	MOBILE	ETOWAH
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	006 03	001 03	005 03	005 03	003 03
9	PLANT CAPACITY (MW)	40.00	75.00	1,770.80	138.00	138.00
10	ANNUAL GENERATION (MWH)[3]	78,600	290,400	8,158,800	525,700	701,500
11	PLANT HEAT RATE (BTU/KWH)[3]	13,719	11,046	9,779	12,481	12,080

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	3.53	135.60	3,296.30	245.80	319.00
13	AVERAGE HEAT CONTENT (BTU/LB)	11,444	11,788	11,995	11,950	11,905
14	AVERAGE SULFUR CONTENT (%)	1.00	1.07	2.34	1.85	1.99
15	AVERAGE ASH CONTENT (%)	16.53	15.19	11.67	13.97	13.14
16	AVERAGE MOISTURE CONTENT (%)	7.37	5.78	7.96	6.47	6.98
17	OIL: CONSUMPTION (1,000 BARRELS)		.61	122.30	14.20	2.90
18	AVERAGE HEAT CONTENT (BTU/GAL)		130,500	137,897	137,777	137,396
19	AVERAGE SULFUR CONTENT (%)		.40	.70	.70	.70
20	GAS: CONSUMPTION (1,000 MCF)	978.28			576.00	836.40
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,029			1,051	1,029

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	3	1	5	3	2
23	- NO. OF WET BOTTOM			3		
24	- NO. WITH FLY ASH REINJECTION	2				
25	- NO. WITH MECHANICAL PRECIPITATORS	3		3	3	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS			2		2
27	- NO. WITH COMBINATION PRECIPITATORS[4]					
28	- NO. WITH DESULFURIZATION SYSTEMS					
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	25.00 30.00	18.00	15.00 18.00	15.00 22.00	20.00
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	84.00 90.00	85.00	84.00 85.00	85.00	
31	TESTED, LOW - HIGH					
32	ESTIMATED, LOW - HIGH	80.00	70.00	80.00	80.00	
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH			98.00 98.50		97.00
34	TESTED, LOW - HIGH					
35	EST., LOW - HIGH			80.00 90.00		90.00
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH					
37	TESTED, LOW - HIGH					
38	ESTIMATED, LOW - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.10	5.25	42.87	5.84	3.56
40	SULFUR DIOXIDE (1,000 TONS)	.07	2.84	151.47	8.95	12.45
41	NITROGEN OXIDES (1,000 TONS)	.22	1.22	45.58	2.36	3.04
42	STACKS: - TOTAL NO.	2	1	5	3	2
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	150.00	250.00	200.00 600.00	174.50	153.30
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]					
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	.42	16.50	336.70	28.90	38.50
46	SOLD (1,000 TONS)[11]			.10		
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]					
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	40.60	37.00	955.00	296.01	
51	ELECTROSTATIC PRECIPITATORS ($1,000)			3,566.00		567.60
52	COMBINATION PRECIPITATORS ($1,000)[4]					
53	DESULFURIZATION SYSTEMS ($1,000)					
54	STACKS ($1,000)	52.80	132.00	2,389.00	11.00	11.00
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	.54	12.80	654.50	88.90	94.20
56	REVENUES FROM SALE OF ASH ($1,000)			.10		
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)					
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)					
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	.54	12.80	676.70	95.20	98.20
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)			.10		

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R CONECUH	R TOMBIGBEE	R MOBILE	R MOBILE	R COOSA
62	AVERAGE RATE OF WITHDRAWAL (CFS)	33.75	77.70	1,422.00	215.30	209.10
63	AVERAGE RATE OF DISCHARGE (CFS)	33.75	77.70	1,422.00	215.30	209.10
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.29	.67	12.23	1.85	1.80
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL OEC	JUL OEC	JUL OEC	JUL OEC	JUL OEC
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	82.00 53.30	90.00 67.00	84.00 64.00	95.00 71.00	83.00 62.00
67	AT OUTFALL, SUMMER - WINTER	90.80 63.90	108.00 98.00	109.00 86.00	111.00 88.00	91.00 77.00
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	229.00	21,570.00	46,998.00	46,998.00	8,065.00
69	- WINTER	1,637.00	38,150.00	33,265.00	33,265.00	12,661.00
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]	C	C			
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.04	.03	.17	.30	.05
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.03		248.23	1.01	.28
73	LIME (TONS), COOLING WATER - BOILER MAKEUP					
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP			45.28		
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	2.09		3.09		
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	ST	ST/OT	ST	ST
78	RECEIVING WATER BODY	R CONECUH		R MOBILE		
79	POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	6.60		9.00 7.00	9.00 7.00	9.00 6.00
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			3.00 50.00	3.00 25.00	3.00 25.00
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN			200.00	560.00	8.40
82	- ASH SETTLING			220,000.00	2,500.00	5,000.00

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	3 40.00	1 75.00	5 1,770.81	3 138.00	2 138.00
84	ONCE THROUGH COOLING (SALINE)					
85	COOLING POND(S)					
86	COOLING TOWER(S)					
87	COMBINATION[21]					
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1953 1958	1969	1953 1971	1941 1951	1949
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]		15.00	17.00 24.00	14.00	20.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	99.40	115.86	1,731.70	326.60	263.00
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	198.80	115.86	1,432.00	333.30	262.40

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	260.90	1,293.60	5,620.00	149.00	306.00
93	COOLING PONDS ($1,000)					
94	COOLING TOWERS ($1,000)					

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	12.30	32.90	46.70	18.80	12.90
96	COST OF CHEMICAL ADDITIVES ($1,000)	.78	1.30			

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	2.40	.60	160.90	14.00	17.10
98	COST OF CHEMICAL ADDITIVES ($1,000)	.08	1.40	201.30	9.40	6.60

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	ALABAMA POWER CO.	ALABAMA POWER CO.	ALEXANDRIA ELEC. LIGHT & WATER WORKS	AMES, CITY OF	APPALACHIAN POWER CO	
2							
3							
4	NAME OF PLANT	GORGAS #2 & #3	GREENE	ALEXANDRIA # 2	AMES	CABIN CREEK	
5	UTILITY-PLANT CODE	004500-0600	004500-0800	007000-0200	010500-0100	014000-0300	
6	STATE	ALABAMA	ALABAMA	LOUISIANA	IOWA	WEST VIRGINIA	
7	COUNTY	WALKER	GREENE	RAPIDES	STORY	KANAWHA	
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	004 03	004 03	106 11	092 07	236 05	
9	PLANT CAPACITY (MW)	1,545.70	568.48	97.50	89.15	273.50	
10	ANNUAL GENERATION (MWH)[3]	8,058,400	3,121,200	368,771	197,300	614,200	
11	PLANT HEAT RATE (BTU/KWH)[3]	10,258	9,736	13,122	13,673	12,926	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	3,544.60	1,277.30		50.87	309.00	
13	AVERAGE HEAT CONTENT (BTU/LB)	11,591	11,823		9,772	13,007	
14	AVERAGE SULFUR CONTENT (%)	1.22	1.56		3.93	1.20	
15	AVERAGE ASH CONTENT (%)	14.53	15.17		14.99	8.69	
16	AVERAGE MOISTURE CONTENT (%)	6.66	7.30		14.82	5.94	
17	OIL: CONSUMPTION (1,000 BARRELS)	84.90	32.50	11.20	10.48		
18	AVERAGE HEAT CONTENT (BTU/GAL)	139,164	137,419	139,615	136,600		
19	AVERAGE SULFUR CONTENT (%)	.70	.70	.10	.50		
20	GAS: CONSUMPTION (1,000 MCF)			4,546.30	1,668.44	48.60	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)			1,050	985	1,100	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	7	2	3	3	9	
23	- NO. OF WET BOTTOM	5	2		1		
24	- NO. WITH FLY ASH REINJECTION				2		
25	- NO. WITH MECHANICAL PRECIPITATORS	4			2	9	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	2	2		1		
27	- NO. WITH CONBINATION PRECIPITATORS[4]						
28	- NO. WITH DESULFURIZATION SYSTEMS					20.00	
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	15.00 18.00	18.00 20.00	6.00 10.00	21.00 30.00	15.00 85.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	84.00 87.00			93.00 94.00		
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH	80.00			93.00 94.00		
33	ELECTROSTATIC/CONBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	98.50 99.00	98.00		99.00		
34	TESTED, LOW - HIGH	99.40 99.90				97.00 98.40	
35	EST., LOW - HIGH	90.00 97.00	85.00		99.00	97.00 98.40	
36	DESULFURIZATION SYSTEN EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	67.34	18.89		.15	.53	
40	SULFUR OIOXIDE (1,000 TONS)	84.96	39.13		3.46	7.27	
41	NITROGEN OXIDES (1,000 TONS)	51.28	19.23	.91	.96	2.79	
42	STACKS: - TOTAL NO.	8	2	3	2	3	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	176.00 750.00	300.00	63.50 93.00	200.00	250.00 262.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	441.90	170.80		6.71	32.70	
46	SOLD (1,000 TONS)[11]						
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF AC10 COLLECTED (1,000 TONS)[12]						
49	ELEMENTAL AND EQUIVALENT OF AC10 SOLD (1,000 TONS)				80.00		
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	1,072.00			250.00		
51	ELECTROSTATIC PRECIPITATORS ($1,000)	8,329.00	1,071.00				
52	CONBINATION PRECIPITATORS ($1,000)[4]						
53	DESULFUPIZATION SYSTENS ($1,000)				465.00		
54	STACKS ($1,000)	2,666.00	296.00		3.00		
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	567.90	119.70				
56	REVENUES FROM SALE OF ASH ($1,000)						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)				3.00		
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	589.00	128.70				
60	TOTAL BYPROOUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R BLACK WARRIOR	R BLACK WARRIOR	W	N	C CABIN	
62	AVERAGE RATE OF WITHORAWAL (CFS)	1,398.60	489.70	.60		300.00	
63	AVERAGE RATE OF OISCHARGE (CFS)	1,398.60	489.70	.50		300.00	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	12.03	4.21	.10		2.58	
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL OEC	JUL OEC	JUL NOV		AUG OEC	
66	MAX. TEMP. OURING PEAK MONTH (DEG. F.): AT OIVERSION, SUMMER - WINTER	72.00 60.00	82.00 60.00	90.00 87.00		84.00 50.00	
67	AT OUTFALL, SUMMER - WINTER	94.00 75.00	94.00 70.00	106.00 101.00		93.00 60.00	
68	AVE. FLOW IN RECEIVING BODY OURING PEAK MONTH (CFS): SUMMER	4,089.00	10,441.00			6,200.00	
69	- WINTER	4,657.00	19,539.00			26,972.00	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]	C		H			
71	CHENICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.16		.06	.03	.20	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	2.84		10.50	.05	.14	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						
74	ALUN (TONS), COOLING WATER - BOILER MAKEUP	21.45				.92	
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.34	2.01	1.20	3.50		
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES YES	YES	
77	SEWAGE OISPOSAL: METHOD PS, ST, SW, OT[18]	OT	OT	PS/SW	PS	ST	
78	RECEIVING WATER BODY	R BLACK WARRIOR	R BLACK WARRIOR			C CABIN	
79	POND OISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	9.00 7.00	9.00 6.00		8.00	7.40	
80	SUSPENOED SOLIOS (PPM), BOILER BLOWDOWN - ASH SETTLING	3.00 5.00	3.00 5.00			90.00	
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	260.00	2,000.00				
82	- ASH SETTLING	100,000.00	60,000.00			86,000.00	

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	7 1,545.70	2 568.48			1 273.50	
84	ONCE THROUGH COOLING (SALINE)						
85	COOLING PONO(S)			3 97.50	3 53.15		
86	COOLING TOWER(S)						
87	CONBINATION[21]						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEN - NEWEST SYSTEM	1929 1972	1965	1956 1963	1950 1968	1943	
89	OESIGN: TENP. RISE ACROSS CONOENSERS (OEG. F), SNALLEST - LARGEST[22]	15.60 22.00	16.00	18.00 20.00	13.50 19.00	8.30	
90	TOTAL RATE OF FLOW THROUGH ALL CONOENSERS (CFS)	1,846.50	612.00	186.00	49.00	405.60	
91	TOTAL RATE OF WITHORAWAL, ONCE THROUGH COOLING SYSTENS (CFS)	1,850.00	612.00			778.00	

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,889.00	1,726.00				
93	COOLING PONOS ($1,000)			286.00	208.00		
94	COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	48.70	18.20	9.00	102.00		
96	COST OF CHENICAL ADDITIVES ($1,000)			.40	10.20		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	116.10	64.10	23.00	1.80		
98	COST OF CHENICAL ACOITIVES ($1,000)	84.00	32.30	4.50	1.50	1.00	

99 ALL FOOTNOTES ARE SHOWN AT THE ENO OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	APPALACHIAN POWER CO	APPALACHIAN POWER CO	APPALACHIAN POWER CO	APPALACHIAN POWER CO	ARIZONA ELECTRIC POWER COOP	1
2							2
3							3
4	NAME OF PLANT	CLINCH RIVER	GLEN LYN	KANAWHA RIVER	ANOS	APACHE	4
5	UTILITY-PLANT CODE	014000-0500	014000-0600	014000-0700	014000-0800	016500-0100	5
6	STATE	VIRGINIA	VIRGINIA	WEST VIRGINIA	WEST VIRGINIA	ARIZONA	6
7	COUNTY	RUSSELL	NILES	KANAWHA	KANAWHA	COCHISE	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	207 06	226 05	204 05	226 05	012 15	8
9	PLANT CAPACITY (MW)	712.50	401.10	426.00	2,900.00	105.00	9
10	ANNUAL GENERATION (MWH) 3/	5,575,200	2,204,000	3,080,100	12,535,100	597,300	10
11	PLANT HEAT RATE (BTU/KWH) 3/	9,139	9,854	9,238	9,117	10,052	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	2,145.40	885.00	1,223.10	4,679.20		12
13	AVERAGE HEAT CONTENT (BTU/LB)	12,012	12,031	11,484	11,998		13
14	AVERAGE SULFUR CONTENT (%)	.86	.94	.86	.91		14
15	AVERAGE ASH CONTENT (%)	15.13	14.83	16.00	12.60		15
16	AVERAGE MOISTURE CONTENT (%)	5.87	6.01	6.33	6.83		16
17	OIL: CONSUMPTION (1,000 BARRELS)	4.60	54.00	3.20	136.60	159.57	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	136,493	134,500	140,000	137,000	137,731	18
19	AVERAGE SULFUR CONTENT (%)	.10	.10	.10	.10	.42	19
20	GAS: CONSUMPTION (1,000 MCF)					4,755.87	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)					1,000	21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	3	10	2	3	1	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS	3	3				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS			2	3		26
27	- NO. WITH COMBINATION PRECIPITATORS 4/		1				27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	20.00	15.00 20.00	15.00	18.00 20.00	10.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		85.00				30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH		95.00	98.50	98.50 99.75		33
34	TESTED, LOW - HIGH			97.05	98.90 99.70		34
35	EST., LOW - HIGH			95.50	84.90 99.50		35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	275.91	9.09	7.49	53.68	.03	39
40	SULFUR DIOXIDE (1,000 TONS)	36.16	16.32	20.62	83.51	.21	40
41	NITROGEN OXIDES (1,000 TONS)	19.32	8.08	11.01	42.42	1.02	41
42	STACKS: - TOTAL NO.	2	5	1	2	1	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	450.00	435.00	325.00	903.00	157.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	324.20	121.80	199.70	428.90		45
46	SOLD (1,000 TONS) 11/		12.10	55.10			46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	183.00					50
51	ELECTROSTATIC PRECIPITATORS ($1,000)			2,966.00	13,479.00		51
52	COMBINATION PRECIPITATORS ($1,000) 4/						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	461.00		519.00	8,387.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						55
56	REVENUES FROM SALE OF ASH ($1,000)						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/						59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R CLINCH	R NEW	R KANAWHA		W	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	11.10	543.64	640.00		1.37	62
63	AVERAGE RATE OF DISCHARGE (CFS)	1.60	543.56	640.00		.48	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	9.50	4.68 .08	5.50		.89	64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	MAY JAN.	AUG OEC	AUG OEC	AUG OEC	JUL OEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66.20 52.50	81.30 51.00	83.00 49.80		72.00 68.00	66
67	AT OUTFALL, SUMMER - WINTER	81.00 75.00	98.30 60.30	97.00 63.20		88.00 85.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	695.00	3,572.00	6,200.00		UNDERGROUND	68
69	- WINTER	695.00	8,662.00	26,972.00		UNDERGROUND	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OTH 16/						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.15	.25	.05	9.20 .03	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		.15	.15	416.02	44.62	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		8.25			.16	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	55.00 .75	13.00 .15	12.00	41.60	4.00	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES YES	YES YES	YES YES	YES YES	YES YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OTH 17/	OT	OT	ST	OT	ST	77
78	RECEIVING WATER BODY		R NEW	R KANAWHA	R KANAWHA	O LEACHING FIELD	78
79	POND DISCHARGE 18/ PH, BOILER BLOWDOWN - ASH SETTLING	12.50	9.00	6.80	7.26	10.50	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		5.60	23.00	30.00	200.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING		99,000.00	35.00			82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING 4/: ONCE THROUGH COOLING (FRESH)		4 403.10	2 426.00			83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING POND(S)						85
86	COOLING TOWER(S)	3 712.50			3 2,932.60	1 75.00	86
87	COMBINATION 21/						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1958 1961	1924 1957	1953	1971 1973	1964	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	18.80	12.20 12.80	13.60	20.00 26.30	15.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	660.00	$27.70	606.00	2,459.00	8.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		774.00	625.00			91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)						92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)	985.00			10,372.00	774.70	94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)					24.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	35.30	1.60	1.63	98.40	15.90	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)					13.70	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	1.90	2.30	4.53	62.70	5.80	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	ARIZONA PUBLIC SERVICE CO	ARIZONA PUBLIC SERVICE CO	ARIZONA PUBLIC SERVICE CO.	ARIZONA PUBLIC SERVICE CO	ARIZONA PUBLIC SERVICE CO.
4	NAME OF PLANT	CHOLLA	FOUR CORNERS	OCOTILLO	PHOENIX	SAGUARO
5	UTILITY-PLANT CODE	017000-0200	017000-0300	017000-0500	017000-0600	017000-0700
6	STATE	ARIZONA	NEW MEXICO	ARIZONA	ARIZONA	ARIZONA
7	COUNTY	NAVAJO	SAN JUAN	MARICOPA	MARICOPA	PINAL
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	014 15	014 14	015 15	015 15	015 15
9	PLANT CAPACITY (MW)	113.60	2,269.80	227.20	116.00	250.00
10	ANNUAL GENERATION (MWH)[3]	959,800	13,009,827	904,400	156,000	656,600
11	PLANT HEAT RATE (BTU/KWH)[3]	10,106	10,276	10,992	13,200	11,523

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	469.20	7,389.20			
13	AVERAGE HEAT CONTENT (BTU/LB)	10,314	8,924			
14	AVERAGE SULFUR CONTENT (%)	.43	.63			
15	AVERAGE ASH CONTENT (%)	9.53	21.76			
16	AVERAGE MOISTURE CONTENT (%)	15.16	11.92			
17	OIL: CONSUMPTION (1,000 BARRELS)			692.80	120.70	840.80
18	AVERAGE HEAT CONTENT (BTU/GAL)			149,664	150,259	149,418
19	AVERAGE SULFUR CONTENT (%)			.91	.83	.91
20	GAS: CONSUMPTION (1,000 MCF)	19.50	1,674.00	5,324.70	1,218.10	4,288.40
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	926	1,080	1,067	1,064	1,069

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	1	5	2	3	2
23	- NO. OF WET BOTTOM					
24	- NO. WITH FLY ASH REINJECTION					
25	- NO. WITH MECHANICAL PRECIPITATORS	1	3			
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		2			
27	- NO. WITH COMBINATION PRECIPITATORS[4]					
28	- NO. WITH DESULFURIZATION SYSTENS	1				
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	15.00	16.00	7.00	7.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	80.00	85.00			
31	TESTED, LOW - HIGH					
32	ESTIMATED, LOW - HIGH					
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH		97.00			
34	TESTED, LOW - HIGH					
35	EST., LOW - HIGH		97.00			
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	98.60				
37	TESTED, LOW - HIGH					
38	ESTIMATED, LOW - HIGH	60.00				

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	7.60	88.10	.12	.02	.14
40	SULFUR DIOXIDE (1,000 TONS)	3.95	91.24	2.12	.34	2.57
41	NITROGEN OXIDES (1,000 TONS)	4.23	66.83	2.57	.50	2.69
42	STACKS: - TOTAL NO.	1	4	4	3	1
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	250.00	300.00	178.00	135.00	160.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	.68				
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	33.89	1,585.10			
46	SOLD (1,000 TONS)[11]					
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]					
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					
50	(INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	240.80	359.40			
51	ELECTROSTATIC PRECIPITATORS ($1,000)		8,344.00			
52	COMBINATION PRECIPITATORS ($1,000)[4]					
53	DESULFURIZATION SYSTEMS ($1,000)	6,553.00				
54	STACKS ($1,000)	174.00	339.40	186.00		106.40
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	71.60	2,921.30			
56	REVENUES FROM SALE OF ASH ($1,000)					
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	3.00				
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)					
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	74.60	2,921.30			
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)					

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	R SAN JUAN	W	W	W
62	AVERAGE RATE OF WITNDRAWAL (CFS)	4.41	35.84	3.30	2.90	2.40
63	AVERAGE RATE OF DISCHARGE (CFS)		4.60	1.08		.51
64	AVE. RATE OF CONSUMPTION (CFS). CALCULATED - REPORTED[14]	4.41	31.24	3.30	2.90	2.40
65	PEAK LOAD MONTH : SUMMER - WINTER[15]					
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER					
67	AT OUTFALL, SUMMER - WINTER					
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER					
69	- WINTER					
70	FREQUENCY OF TEMPERATURE MONITORING: C, N, O, O[16]					
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.08	1.60	14.58 .16	6.63 .03	5.44
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	46.40	139.23	216.32		41.27
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		126.78			
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		26.80			
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	6.24	48 [illegible]	13.08	1.00	14.75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	ST	ST	ST	ST
78	RECEIVING WATER BODY					
79	POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	8.00	8.75			
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		25.00			
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN					
82	- ASH SETTLING		13,722.34			

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)								
84	ONCE THROUGH COOLING (SALINE)								
85	COOLING POND(S)	1	115.00	5	2,148.10				
86	COOLING TOWER(S)					2	220.00	3	116.00	2	200.00
87	COMBINATION[21]								
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM		1962		1963		1960	1948	1972	1954	1955
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]		18.31		20.00		19.20		18.00		22.60
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)		62.00		2,467.70		25.80		207.00		312.00
91	TOTAL RATE OF WITNDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)										

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTENS ($1,000)					
93	COOLING PONDS ($1,000)	730.00	11,280.00			
94	COOLING TOWERS ($1,000)			757.50		414.90

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	1.30	120.90	8.90	3.30	20.40
96	COST OF CHEMICAL ADDITIVES ($1,000)	3.50	8.40	18.10	8.00	16.70

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	19.00	999.60	29.30	2.20	28.30
98	COST OF CHEMICAL ADDITIVES ($1,000)	1.80	110.50	15.80	1.00	5.20

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	ARIZONA PUBLIC SERVICE CO.	ARKANSAS ELECTRIC COOP CORP.	ARKANSAS ELECTRIC COOP CORP.	ARKANSAS ELECTRIC COOP CORP.	ARKANSAS-MO PWR CO	1
2							2
3							3
4	NAME OF PLANT	YUCCA	FITZHUGH	BAILEY	MCCLELLAN	MILL	4
5	UTILITY-PLANT CODE	017000-0900	017500-0100	017500-0200	017500-0300	018000-0300	5
6	STATE	ARIZONA	ARKANSAS	ARKANSAS	ARKANSAS	MISSOURI	6
7	COUNTY	YUMA	FRANKLIN	WOODRUFF	OUACHITA	CLARK	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	013 15	021 11	020 11	019 08	130 08	8
9	PLANT CAPACITY (MW)	86.70	59.84	120.00	136.00	30.00	9
10	ANNUAL GENERATION (MWH)[3]	283,700	150,628	202,021	336,506	60,500	10
11	PLANT HEAT RATE (BTU/KWH)[3]	11,821	11,817	11,241	11,657	13,823	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)						12
13	AVERAGE HEAT CONTENT (BTU/LB)						13
14	AVERAGE SULFUR CONTENT (%)						14
15	AVERAGE ASH CONTENT (%)						15
16	AVERAGE MOISTURE CONTENT (%)						16
17	OIL: CONSUMPTION (1,000 BARRELS)	104.00	162.60	202.90	92.38	33.38	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	149,968	153,006	152,730	139,513	150,924	18
19	AVERAGE SULFUR CONTENT (%)	1.16	2.02	2.41	.10	1.50	19
20	GAS: CONSUMPTION (1,000 MCF)	2,562.00	726.00	959.60	3,354.63	628.18	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,052	1,013	1,012	1,007	994	21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	1	1	1	1	1	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS						26
27	- NO. WITH COMBINATION PRECIPITATORS[4]						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	7.00	7.00	8.00	10.00	10.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH						33
34	TESTED, LOW - HIGH						34
35	EST., LOW - HIGH						35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.02	.03	.03	.02	.01	39
40	SULFUR DIOXIDE (1,000 TONS)	.40	1.10	1.64	.03	.17	40
41	NITROGEN OXIDES (1,000 TONS)	.73	.50	.63	.86	.20	41
42	STACKS: - TOTAL NO.	1	1	1	1	1	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	146.50	179.00	167.00	160.00	150.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]						45
46	SOLD (1,000 TONS)[11]						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)						51
52	COMBINATION PRECIPITATORS ($1,000)[4]						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)		29.00	29.00	44.25	26.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						55
56	REVENUES FROM SALE OF ASH ($1,000)						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]						59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	R ARKANSAS	R WHITE	R OUACHITA	W	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	1.08	55.00	93.00	75.00	.89	62
63	AVERAGE RATE OF DISCHARGE (CFS)		55.00	93.00	75.00	.45	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.84	.47	.80	.65	.44	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]		JUL JAN	JUL JAN	JUL JAN	AUG DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		91.00 59.00	76.00 50.00	85.00 45.00	58.00 58.00	66
67	AT OUTFALL, SUMMER - WINTER		104.00 76.00	84.00 67.00	101.00 55.00	95.00 80.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		29,600.00	17,200.00	31,000.00	100.85	68
69	- WINTER		19,500.00	15,300.00	11,060.00	100.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]			O	H		70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.11	.20	.04	.03	3.70 .02	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		.25	.01			72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	3.15				.95	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES	YES	YES	YES YES	76
77	SEWAGE DISPOSAL: METHOD P, ST, SW, O[16]	ST	ST	ST	ST	ST	77
78	RECEIVING WATER BODY		R ARKANSAS		R OUACHITA		78
79	POND DISCHARGE[18]: PH, BOILER BLOWDOWN - ASH SETTLING						79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING						82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING[19]: ONCE THROUGH COOLING (FRESH)		1 59.84	1 120.00	1 136.00		83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING PONDS(5)						85
86	COOLING TOWER(S)	1 75.00				1 30.00	86
87	COMBINATIONS[21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1959	1962	1966	1972	1950	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	20.00	14.00	20.70	17.50	15.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	86.00	91.35	116.00	156.00	60.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		91.40	116.00	156.00		91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)		630.00	897.00	1,032.67		92
93	COOLING PONDS ($1,000)				395.90		93
94	COOLING TOWERS ($1,000)	676.00				100.30	94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	18.23				22.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	9.20				3.54	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	12.15	2.00	2.00	1.09	4.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	2.50	5.00	5.00	.31	.34	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	ARKANSAS POWER & LIGHT CO.	ARKANSAS POWER & LIGHT CO.	ARKANSAS POWER & LIGHT CO.	ARKANSAS POWER & LIGHT CO.	ARKANSAS POWER & LIGHT CO.
4	NAME OF PLANT	LYNCH	MOSES	COUCH	LAKE CATHERINE	RITCHIE
5	UTILITY-PLANT CODE	018500-0200	018500-0300	018500-0400	018500-0500	018500-0600
6	STATE	ARKANSAS	ARKANSAS	ARKANSAS	ARKANSAS	ARKANSAS
7	COUNTY	PULASKI	ST. FRANCIS	LAFAYETTE	HOT SPRING	PHILLIPS
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	016 11	020 08	022 11	010 08	020 08
9	PLANT CAPACITY (MW)	260.00	126.00	187.00	734.00	904.00
10	ANNUAL GENERATION (MWH)[3]	488,100	367,700	620,400	3,007,500	3,504,900
11	PLANT HEAT RATE (BTU/KWH)[3]	13,156	13,276	11,928	10,563	10,267

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION II,000 TONS)					
13	AVERAGE HEAT CONTENT (BTU/LB)					
14	AVERAGE SULFUR CONTENT (%)					
15	AVERAGE ASH CONTENT (%)					
16	AVERAGE MOISTURE CONTENT (%)					
17	OIL: CONSUMPTION (1,000 BARRELS)	161.54	759.48	193.22	2,219.15	3,346.79
18	AVERAGE HEAT CONTENT (BTU/GAL)	139,396	150,576	151,880	152,230	150,290
19	AVERAGE SULFUR CONTENT (%)	.10	.60	.80	.80	.70
20	GAS: CONSUMPTION (1,000 MCF)	5,464.40		6,244.98	17,415.06	14,342.15
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,004		985	1,005	1,014

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	3	2	2	4	2
23	- NO. OF WET BOTTOM					
24	- NO. WITH FLY ASH REINJECTION					
25	- NO. WITH MECHANICAL PRECIPITATORS					
26	- NO. WITH ELECTROSTATIC PRECIPITATORS					
27	- NO. WITH COMBINATION PRECIPITATORS[4]					
28	- NO. WITH DESULFURIZATION SYSTEMS					
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	7.00	7.00	7.00	7.00 10.00	7.00 10.00
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					
31	TESTED, LOW - HIGH					
32	ESTIMATED, LOW - HIGH					
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH					
34	TESTED, LOW - HIGH					
35	EST., LOW - HIGH					
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH					
37	TESTED, LOW - HIGH					
38	ESTIMATED, LOW - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.03	.13	.03	.37	.56
40	SULFUR OIOXIOE (1,000 TONS)	.05	1.53	.52	5.96	7.86
41	NITROGEN OXIOES (1,000 TONS)	1.42	1.67	1.64	8.29	10.16
42	STACKS: - TOTAL NO.	3	4	3	3	3
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	147.00 150.00	141.00	147.00 150.00	175.00 195.50	236.00 450.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]					
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]					
46	SOLD (1,000 TONS)[11]					
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
48	EQUIVALENT OF AC1O COLLECTED (1,000 TONS)[12]					
49	ELEMENTAL AND EQUIVALENT OF AC1O SOLD (1,000 TONS)					
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)					
51	ELECTROSTATIC PRECIPITATORS ($1,000)					
52	COMBINATION PRECIPITATORS I$1,000)[4]					
53	DESULFURIZATION SYSTEMS ($1,000)					
54	STACKS ($1,000)	72.30	24.80	59.20	172.70	463.40
55	ASH COLLECTION AND DISPOSAL EXPENSES I$1,000)					
56	REVENUES FROM SALE OF ASH ($1,000)					
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)					
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)					
59	TOTAL AIR QUALITY CONTROL EXPENSES I$1,000)[13]					
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)					

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	R L'ANGUILLE	W	L CATHERINE	R MISSISSIPPI
62	AVERAGE RATE OF WITHORAWAL ICFS)	2.44	1.96	2.25	920.90	520.00
63	AVERAGE RATE OF DISCHARGE (CFS)	.42	1.55	.95	920.90	520.00
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	2.02	.41	1.30	7.92	4.47
65	PEAK LOAD MONTH : SUMMER - WINTER[15]		JUL FEB		JUL FEB	JUL FEB
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		80.00 42.00		73.00 54.00	84.00 40.00
67	AT OUTFALL, SUMMER - WINTER		82.00 57.00		97.00 79.00	113.00 80.00
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		99.10		2,076.00	
69	- WINTER		1,619.40		5,906.00	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]					
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.60	.64	.66	.34	.06
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP				28.61	133.64
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	436.94	37.05			
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		153.13		8.15	
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	18.00	15.76	13.86	.41	1.10
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES YES	YES YES	64.71 YES YES	9.21 YES YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	ST	ST	ST	ST
78	RECEIVING WATER BODY					
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING					
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN					
82	- ASH SETTLING					

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)				4 757.00	2 904.00
84	ONCE THROUGH COOLING (SALINE)					
85	COOLING PONDIS)					
86	COOLING TOWER(S)	3 259.00	2 138.00	2 187.00		
87	COMBINATION[21]					
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1947 1954	1951	1943 1954	1949 1970	1961 1967
89	DESIGN: TEMP. RISE ACROSS CONDENSERS IDEG. F), SMALLEST - LARGEST[22]	16.50 18.00	18.00	15.00 18.00	12.50 18.40	25.00 30.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS ICFS)	367.00	218.00	260.00	1,093.00	685.00
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)				1,093.00	685.00

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)				1,583.40	5,749.70
93	COOLING PONDS ($1,000)					
94	COOLING TOWERS ($1,000)	773.70	464.50	589.00		

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	46.39	42.45	89.50	1.57	1.00
96	COST OF CHEMICAL ADDITIVES ($1,000)	64.43	21.28	8.04	15.59	2.17

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	6.40	2.38	6.09	11.62	9.78
98	COST OF CHEMICAL ADDITIVES ($1,000)	1.58	1.66	.39	7.33	32.59

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	ATLANTIC CITY ELECTRIC CO.	ATLANTIC CITY ELECTRIC CO.	AUSTIN UTILITIES	BALTIMORE GAS & ELECTRIC CO.	BALTIMORE GAS & ELECTRIC CO.	
NAME OF PLANT	ENGLAND	MISSOURI AVENUE	AUSTIN	CRANE	GOULD STREET	
UTILITY-PLANT CODE	022000-0100	022000-0300	025000-0100	026500-0100	026500-0200	
STATE	NEW JERSEY	NEW JERSEY	MINNESOTA	MARYLAND	MARYLAND	
COUNTY	CAPE MAY	ATLANTIC	MOWER	BALTIMORE	BALTIMORE CITY	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	150 02	150 02	128 OT	115 02	115 02	
PLANT CAPACITY (MW)	299.20	25.00	65.45	399.80	1T3.50	
ANNUAL GENERATION (MWH)[3]	1,947,300	151,000	85,636	2,4TT,443	564,200	
PLANT HEAT RATE (BTU/KWH)[3]	10,01T	13,003	3T,3T8	10,292	13,330	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	37.45	72.19	21.47			
AVERAGE HEAT CONTENT (BTU/LB)	11,602	13,600	12,233			
AVERAGE SULFUR CONTENT (%)	2.72	.55	2.60			
AVERAGE ASH CONTENT (%)	13.02	6.59	T.86			
AVERAGE MOISTURE CONTENT (%)	6.T2	4.59	8.24			
OIL: CONSUMPTION (1,000 BARRELS)	3,192.05		29.00	4,181.53	1,219.43	
AVERAGE HEAT CONTENT (BTU/GAL)	138,99T		150,000	145,183	146,835	
AVERAGE SULFUR CONTENT (%)	.74		3.10	.56	.95	
GAS: CONSUMPTION (1,000 MCF)			2,491.61			
AVERAGE HEAT CONTENT (BTU/CU.FT.)			1,000			

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	2	5	2	3	
- NO. OF WET BOTTOM	2			2		
- NO. WITH FLY ASH REINJECTION	2			2		
- NO. WITH MECHANICAL PRECIPITATORS			3		2	
- NO. WITH ELECTROSTATIC PRECIPITATORS	2	2	1	2	1	
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	16.00	26.00 28.00	20.00	15.00	20.00 25.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			85.00		80.00	
TESTED, LOW - HIGH					T4.20	
ESTIMATED, LOW - HIGH			80.00			
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	97.10 98.00	95.00	99.50	95.00	95.00	
TESTED, LOW - HIGH	95.37 95.46	81.40 8T.80	99.50	80.00	56.10	
EST., LOW - HIGH	75.00 77.00	81.00 8T.00	99.50	58.00		
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.25	.58	.10	.30	.13	
SULFUR OXIDE (1,000 TONS)	9.92	.T8	1.39	7.86	3.89	
NITROGEN OXIDES (1,000 TONS)	8.07	.65	.T2	9.22	2.69	
STACKS: - TOTAL NO.	2	2	4	2	3	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	250.50	216.00	130.00 150.00	353.00	238.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	.1T					
TOTAL ASH: COLLECTED (1,000 TONS)[10]	4.90	7.40	1.81	.80		
SOLD (1,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)					588.00	
ELECTROSTATIC PRECIPITATORS ($1,000)	744.TO	156.60	186.37	3,330.00	516.00	
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	291.60	56.00		4,513.00	225.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		22.50		16.30	17.10	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		22.50		16.30	17.10	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	B HARBOR	O BEACH THRFARE	R REO CEDAR	C SENECA	R PATAPSCO	
AVERAGE RATE OF WITHDRAWAL (CFS)	288.00	45.00		636.00	23T.00	
AVERAGE RATE OF DISCHARGE (CFS)	288.00	45.00		636.00	237.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	2.48	.39		5.47	2.04	
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG JAN	AUG JAN	AUG OEC	AUG JAN	AUG JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	73.00 48.00	75.00 48.00	72.00 36.00	88.00 45.00	86.00 51.00	
AT OUTFALL, SUMMER - WINTER	88.00 T8.00	90.00 69.00	82.00 45.00	98.00 59.00	9T.00 70.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER				TIDAL	TIDAL	
- WINTER				TIDAL	TIDAL	
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]			H			
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	2.T5	.1T	3.00			
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	110.50	14.09	1.08	.01	.01	
LIME (TONS), COOLING WATER - BOILER MAKEUP	.18	1.55	64.50			
ALUM (TONS), COOLING WATER - BOILER MAKEUP			3.53			
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	86.00	4.50	4.00		66.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES YES	YES YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	PS	PS	PS	SW	
RECEIVING WATER BODY	O LEACHING FIELD				R PATAPSCO	
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	9.80 8.00	7.90 7.90	7.00	6.80	6.80	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	5.00 50.00			52.00	2,092.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	1,200.00	22.50				
- ASH SETTLING	40,000.00	21,442.81	399.00	23,200.00	62,700.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)			3 16.00			
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)						
COOLING TOWER(S)			2 43.45			
COMBINATION[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1962 1963	1941 1946	1935 . 19T1	1961 1962	1927 1952	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	10.00	10.00	14.00	11.30	15.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	432.00	I42.00		694.00	330.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	432.00	I42.00		694.00	330.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	1,732.70	488.10		3,364.00	92T.00
COOLING PONDS ($1,000)					
COOLING TOWERS ($1,000)					

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	100.00	16.10		34.80	62.80
COST OF CHEMICAL ADDITIVES ($1,000)	9.60	.50	13.40		6.90

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	103.50	T8.90		15.60	5.TO
COST OF CHEMICAL ADDITIVES ($1,000)	16.20	2.90	11.30	3.20	.30

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	BALTIMORE GAS & ELECTRIC CO.	BALTIMORE GAS & ELECTRIC CO.	BALTIMORE GAS & ELECTRIC CO.	BANGOR HYDROELECTRIC CO	BASIN ELECTRIC POWER COOP	
NAME OF PLANT	WAGNER	RIVERSIDE	WESTPORT	GRAHAM	LELAND OLDS	
UTILITY-PLANT CODE	026500-0300	026500-0500	026500-0600	028000-0600	031000-0100	
STATE	MARYLAND	MARYLAND	MARYLAND	MAINE	NORTH DAKOTA	
COUNTY	ANNE ARUNDEL	BALTIMORE	BALTIMORE CITY	PENOBSCOT	MERCER	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	[illegible] 02	[illegible] 02	[illegible] 02	[illegible] 01	[illegible] 10	
PLANT CAPACITY (MW)	990.30	333.50	194.00	57.45	216.00	
ANNUAL GENERATION (MWH)[3]	5,141,000	1,266,200	561,800	294,300	1,435,400	
PLANT HEAT RATE (BTU/KWH)[3]	10,972	12,210	13,494	12,857	10,683	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	774.26				1,282.99	
AVERAGE HEAT CONTENT (BTU/LB)	13,097				6,661	
AVERAGE SULFUR CONTENT (%)	.88				.75	
AVERAGE ASH CONTENT (%)	9.18				11.77	
AVERAGE MOISTURE CONTENT (%)	4.23				37.64	
OIL: CONSUMPTION (1,000 BARRELS)	5,111.05	2,508.11	1,232.36	605.00	2.40	
AVERAGE HEAT CONTENT (BTU/GAL)	146,745	146,762	146,470	148,384	140,000	
AVERAGE SULFUR CONTENT (%)	.97	1.00	.98	2.24	.10	
GAS: CONSUMPTION (1,000 MCF)						
AVERAGE HEAT CONTENT (BTU/CU.FT.)						

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	4	5	4	3	1	
- NO. OF WET BOTTOM	1				1	
- NO. WITH FLY ASH REINJECTION	1	2				
- NO. WITH MECHANICAL PRECIPITATORS	1	3	3			
- NO. WITH ELECTROSTATIC PRECIPITATORS	2		1			
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS				1	1	
- EXCESS AIR USED (%). LOWEST BOILER - HIGHEST BOILER[5]	[illegible] - HIGH	[illegible] - HIGH	[illegible] - HIGH	15.00	24.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, [illegible] - HIGH	23.00	20.00	20.00		85.00	
TESTED, [illegible] - HIGH	90.00	65.00			85.50	
ESTIMATED, [illegible] - HIGH		31.00			85.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, [illegible] - HIGH	90.00	31.00				
TESTED, [illegible] - HIGH	99.00	87.00	87.00			
EST., [illegible] - HIGH	98.50	70.70	93.00			
[illegible] - HIGH	73.00	70.70	80.00			
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, [illegible] - HIGH						
TESTED, [illegible] - HIGH						
ESTIMATED, [illegible] - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	1.05	.23	.05	.10	19.25	
SULFUR OIOXIOE (1,000 TONS)	29.99	8.41	3.97	4.55	12.57	
NITROGEN OXIOES (1,000 TONS)	18.24	5.53	2.72	1.33	11.55	
STACKS: - TOTAL NO.	4	5	3	3	1	
- HEIGHT (FEET). LOWEST - HIGHEST[8]	[illegible] 350.00	216.00	220.00	99.00	350.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]					88.30	
TOTAL ASH: COLLECTED (1,000 TONS)[10]	112.70				2.38	
SOLD (1,000 TONS)[11]	3.70					
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]					145.00	
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	769.00	699.00				
ELECTROSTATIC PRECIPITATORS ($1,000)	983.00	907.00	368.00			
COMBINATION PRECIPITATORS ($1,000)[4]	2,603.00		432.00			
DESULFURIZATION SYSTEMS ($1,000)				42.40	976.22	
STACKS ($1,000)	1,639.00	520.00	154.00		47.90	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	291.50	47.00	19.50		8.70	
REVENUES FROM SALE OF ASH ($1,000)	2.30					
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)					47.90	
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	291.50	47.00	19.50		8.70	
TOTAL BYPRODUCT SALES REVENUES ($1,000)	2.30					

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R PATAPSCO	R PATAPSCO	R PATAPSCO	R PENOBSCOT	R MISSOURI	
AVERAGE RATE OF WITHDRAWAL (CFS)	1,471.00	486.00	353.00	62.00	162.64	
AVERAGE RATE OF DISCHARGE (CFS)	1,471.00	486.00	353.00	62.00	162.59	
AVE. RATE OF CONSUMPTION (CFS). CALCULATED - REPORTED[14]	[illegible]	[illegible]	[illegible]	[illegible]	.05	
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG	AUG	AUG	JUL	JAN	SEP	OEC
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	[illegible]	[illegible]	[illegible]	[illegible]	32.00	40.00	45.00
AT OUTFALL, SUMMER - WINTER	87.00	85.00	84.00	82.00	60.00	90.00	76.00
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	97.00	75.00	[illegible]	[illegible]	[illegible]	[illegible]	25,000.00
- WINTER	T10AL	T10AL	T10AL	8,600.00			
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]	T10AL	T10AL	T10AL	H	H		
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	C			.88	.25		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		.04	.04	1.97	30.50		
LIME (TONS), COOLING WATER - BOILER MAKEUP					.05		
ALUM (TONS), COOLING WATER - BOILER MAKEUP							
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP[17]	314.00	60.00	60.00		YES		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES			
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	PS	PS	ST	ST	R MISSOURI	
RECEIVING WATER BODY						9.10	9.60
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	6.80	6.80	6.80			.10	10.00
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	62.00	129.00	734.00				
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	13,300.00	2,000.00	3,900.00				125,000.00

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	4 1,042.00	5 333.00	3 194.00	3 57.45	1 240.00	
ONCE THROUGH COOLING (SALINE)						
COOLING PONDS[21]						
COOLING TOWERS[21]						
COMBINATIONS[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1956 1972	1942 1953	1924 1950	1954 1964	1965	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F). SMALLEST - LARGEST[22]	11.49 15.00	15.00	15.00	15.00 15.70	27.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,631.60	573.00	413.00	107.00	162.64	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,669.60	573.00	413.00	107.00	167.10	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)					999.00
COOLING PONDS ($1,000)	9,040.00	2,616.00	1,252.00		
COOLING TOWERS ($1,000)					

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	122.80	122.00	61.30	2.42	36.90
COST OF CHEMICAL ADDITIVES ($1,000)	32.70	4.20	6.20		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	15.10	21.40	20.00	2.64	19.30
COST OF CHEMICAL ADDITIVES ($1,000)	4.20	2.00	1.30	3.07	11.20

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	BASIN ELECTRIC POWER COOP	BEECH BOTTOM POWER CO.	BIG RIVERS RURAL ELECTRIC COOP	BIG RIVERS RURAL ELECTRIC COOP	BLACK HILLS POWER & LIGHT CO.	
NAME OF PLANT	NEAL	WINDSOR	COLEMAN	REID	KIRK	
UTILITY-PLANT CODE	031000-0200	035500-0100	041000-0050	041000-0100	041500-0400	
STATE	NORTH DAKOTA	WEST VIRGINIA	KENTUCKY	KENTUCKY	SOUTH DAKOTA	
COUNTY	MCHENRY	BROOKE	HANCOCK	HENDERSON	LAWRENCE	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	172 10	181 05	077 05	077 05	205 10	
PLANT CAPACITY (MW)	36.00	300.00	521.30	80.00	32.00	
ANNUAL GENERATION (MWH)[3]	131,000	225,300	3,337,000	463,200	139,173	
PLANT HEAT RATE (BTU/KWH)[3]	24,154	9,745	10,115	11,521	15,803	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	234.80	93.30	1,538.89	257.53	137.49	
AVERAGE HEAT CONTENT (BTU/LB)	6,526	11,397	10,890	10,344	7,999	
AVERAGE SULFUR CONTENT (%)	.75	3.44	3.76	3.72	.37	
AVERAGE ASH CONTENT (%)	5.82	16.84	12.54	15.40	6.22	
AVERAGE MOISTURE CONTENT (%)	39.33	5.10	11.09	11.34	30.04	
OIL: CONSUMPTION (1,000 BARRELS)	16.70	12.00		1.16		
AVERAGE HEAT CONTENT (BTU/GAL)	142,000	136,918		136,000		
AVERAGE SULFUR CONTENT (%)	.10	.10		.10		
GAS: CONSUMPTION (1,000 MCF)			226.70			
AVERAGE HEAT CONTENT (BTU/CU.FT.)			1,000			

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	4	3	1	4	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION					4	
- NO. WITH MECHANICAL PRECIPITATORS	2	4		1	1	
- NO. WITH ELECTROSTATIC PRECIPITATORS			3			
- NO. WITH COMBINATION PRECIPITATORS[4]				1		
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	22.00	20.00	18.00	22.00	22.00 38.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	84.00			85.00	92.00	
TESTED, LOW - HIGH	84.00					
ESTIMATED, LOW - HIGH					92.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH			99.00	99.00		
TESTED, LOW - HIGH			97.60 99.90	98.40		
EST., LOW - HIGH			99.50			
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	1.86	23.79	.82	.54	2.79	
SULFUR DIOXIDE (1,000 TONS)	3.46	11.21	113.41	18.78	.99	
NITROGEN OXIDES (1,000 TONS)	2.15	1.52	13.89	2.32	1.03	
STACKS: - TOTAL NO.	2	2	3	1	4	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	139.00	272.00	350.00	250.00	77.00 111.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]	11.20		191.59	39.58	8.00	
SOLD (1,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	44.85			25.00	28.00	
ELECTROSTATIC PRECIPITATORS ($1,000)			1,657.60			
COMBINATION PRECIPITATORS ($1,000)[4]				396.70		
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)						
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	5.50		1,032.70	125.00	1.29	
REVENUES FROM SALE OF ASH ($1,000)	10.20		138.50	23.20	21.10	
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	10.20		138.50	23.20	21.10	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	R ONIO	R ONIO	R GREEN	O MINING CO.	
AVERAGE RATE OF WITHDRAWAL (CFS)	1.00	154.00	562.00	150.00		
AVERAGE RATE OF DISCHARGE (CFS)		154.00	553.00	145.50		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.00		4.83 9.00	1.29 4.50		
PEAK LOAD MONTH : SUMMER - WINTER[15]			AUG OEC	AUG OEC	AUG OEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER			85.00 52.00	85.00 59.00		
AT OUTFALL, SUMMER - WINTER			109.00 84.00	102.00 75.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			110,700.00	10,580.00		
- WINTER			110,700.00	10,580.00		
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, ON[16]					O	
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.30		.35	.45	9.00 .25	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.15		134.01	40.70	.25	
LIME (TONS), COOLING WATER - BOILER MAKEUP	17.63			8.50	40.00	
ALUM (TONS), COOLING WATER - BOILER MAKEUP	.68			13.00		
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.88		3.00	3.60	.45	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES		YES	YES	YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]		ST	ST	ST	ST	
RECEIVING WATER BODY	O FIELD	R ONIO			C WHITETAIL	
POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	10.40 8.00		9.50	9.50	8.70 8.70	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					500.00 500.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	150.00					
- ASH SETTLING			45,195.00		.28	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)		2 120.00	3 496.00	1 80.00		
ONCE THROUGH COOLING (SALINE)						
COOLING PONDS[5]						
COOLING TOWERS[5]						
COMBINATION[21]	2 34.50				4 32.00	
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1951	1939 1941	1969 1971	1965	1935 1955	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	15.00		18.00	16.00	12.00 16.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	74.00	450.00	2,301.00	172.00	113.90	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		737.00	538.00	172.00		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)			2,324.10	1,073.25		
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)	153.90				61.00	

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	3.90				12.00	
COST OF CHEMICAL ADDITIVES ($1,000)	4.50		.50	.70	10.40	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	8.40				3.00	
COST OF CHEMICAL ADDITIVES ($1,000)	4.50		12.18	4.59	2.50	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	BLACK HILLS POWER & LIGHT CO.	BLACK HILLS POWER & LIGHT CO.	BOSTON EDISON CO.	BOSTON EDISON CO.	BOSTON EDISON CO.	1
2							2
3							3
4	NAME OF PLANT	NEIL SIMPSON	OSAGE	EDGAR	L STREET	MYSTIC	4
5	UTILITY-PLANT CODE	041500-0450	041500-0500	048500-0100	048500-0200	048500-0300	5
6	STATE	WYOMING	WYOMING	MASSACHUSETTS	MASSACHUSETTS	MASSACHUSETTS	6
7	COUNTY	CAMBELL	WESTON	NORFOLK	SUFFOLK	MIDDLESEX	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	243 10	243 10	119 01	119 01	119 01	8
9	PLANT CAPACITY (MW)	26.60	35.00	263.50	25.00	618.00	9
10	ANNUAL GENERATION (MWH)[3]	194,275	250,700	1,310,065	77,500	2,425,768	10
11	PLANT HEAT RATE (BTU/KWH)[3]	17,612	13,644	11,021	8,715	10,924	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	213.85	234.20				12
13	AVERAGE HEAT CONTENT (BTU/LB)	8,004	8,003				13
14	AVERAGE SULFUR CONTENT (%)	.37	.57				14
15	AVERAGE ASH CONTENT (%)	4.25	6.29				15
16	AVERAGE MOISTURE CONTENT (%)	29.96	30.02				16
17	OIL: CONSUMPTION (1,000 BARRELS)	.70		2,358.80	110.20	4,351.10	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	140,000		145,735	145,736	145,011	18
19	AVERAGE SULFUR CONTENT (%)	.20		.97	.46	.61	19
20	GAS: CONSUMPTION (1,000 MCF)						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)						21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	4	3	5	9	6	22
23	- NO. OF WET BOTTOM	1					23
24	- NO. WITH FLY ASH REINJECTION	2	5				24
25	- NO. WITH MECHANICAL PRECIPITATORS	5	3				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS			3	9	6	26
27	- NO. WITH COMBINATION PRECIPITATORS[4]						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%). LOWEST BOILER - HIGHEST BOILER[5]	17.00 40.00	60.00	20.00	24.00	20.00 29.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	20.00 80.00	91.00				30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH	20.00 80.00	91.00				32
33	ELECTROSTATIC/COMBINATION PRECIPITATON EFFICIENCY[6]: DESIGN, LOW - HIGH			95.00	80.00 90.00	95.00	33
34	TESTED, LOW - HIGH						34
35	EST., LOW - HIGH						35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH					90.00	36
37	TESTED, LOW - HIGH					91.00	37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	3.99	2.11	.02		.64	39
40	SULFUR DIOXIDE (1,000 TONS)	1.55	1.70	7.68	.17	8.90	40
41	NITROGEN OXIDES (1,000 TONS)	2.72	1.76	5.20	.24	9.59	41
42	STACKS: - TOTAL NO.	4	3	5	5	5	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	57.00 177.89	80.00	250.00	266.00	260.00 335.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]			.01		.20	44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	8.90	15.00	.14	.03	.20	45
46	SOLD (1,000 TONS)[11]						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	4.00	26.00				50
51	ELECTROSTATIC PRECIPITATORS ($1,000)			574.40	585.80	1,595.00	51
52	COMBINATION PRECIPITATORS ($1,000)[4]						52
53	DESULFURIZATION SYSTEMS ($1,000)					4,000.00	53
54	STACKS ($1,000)	32.77	7.80	192.09	67.51	971.58	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	18.00	26.80	4.80	4.80	9.90	55
56	REVENUES FROM SALE OF ASH ($1,000)						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	18.00	26.80	4.80	4.80	9.90	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)		W	R WEYMOUTH FORE	M BOSTON	R MYSTIC	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)					535.60	62
63	AVERAGE RATE OF DISCHARGE (CFS)					535.60	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]						64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	RUG OEC	RUG OEC				65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER					75.00 46.00	66
67	AT OUTFALL, SUMMER - WINTER					92.00 63.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER					TIDAL BASIN	68
69	- WINTER					TIDAL BASIN	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D[16]		O				70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.23 .75	12.00 .23		4.80	6.00	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.17	.23		153.87	75.01	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	1.30	1.55			11.54	75
76	OTHER (SPECIFY), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[17]	ST	ST	PS	PS	PS	77
78	RECEIVING WATER BODY	O ASH PONDS	C POISON				78
79	POND DISCHARGE:[18] PH, BOILER BLOWDOWN - ASH SETTLING	7.50	7.50				79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	300.00	45.00				80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING		9,225.00				82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING[19] ONCE THROUGH CYCLING (FRESH)						83
84	ONCE THROUGH COOLING (SALINE)			9 404.61	5 155.00		84
85	COOLING POND(S)						85
86	COOLING TOWER(S)						86
87	COMBINATION[20]	4 26.68	5 55.00			6 557.50	87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1946 1969	1948 1952	1925 1954	1919 1921	1945 1961	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	18.00	15.00	9.60 14.60	22.80	14.50 19.10	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	16.80	76.86	889.00	200.40	802.50	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)			750.00	178.00	705.00	91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)			5,299.55		2,172.05	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)	1,144.00	204.00			109.24	94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	6.00	16.80			96.30	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	1.40	12.80			2.90	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	6.70	3.00		98.90	145.80	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	6.74	1.00		36.90	28.90	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	BOSTON EDISON CO.	BOSTON EDISON CO.	BRAZOS ELECTRIC POWER COOP INC.	BRAZOS ELECTRIC POWER COOP INC.	BROWNSVILLE, CITY OF	
4	NAME OF PLANT	NEW BOSTON	PILGRIM	NORTH TEXAS	MILLER	SI RAY	
5	UTILITY-PLANT CODE	048500-0400	048500-0450	052000-0100	052000-0200	057000-0100	
6	STATE	MASSACHUSETTS	MASSACHUSETTS	TEXAS	TEXAS	TEXAS	
7	COUNTY	SUFFOLK	PLYMOUTH	PARKER	PALO PINTO	CAMERON	
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	119 01	120 01	215 12	215 12	213 13	
9	PLANT CAPACITY (MW)	760.00	1,998.00	75.00	188.00	120.00	
10	ANNUAL GENERATION (MWH) 3/	4,416,900	4,074,000	284,500	818,700	335,329	
11	PLANT HEAT RATE (BTU/KWH) 3/	9,530	10,506	12,227	10,768	14,333	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)						
13	AVERAGE HEAT CONTENT (BTU/LB)						
14	AVERAGE SULFUR CONTENT (%)						
15	AVERAGE ASH CONTENT (%)						
16	AVERAGE MOISTURE CONTENT (%)						
17	OIL: CONSUMPTION (1,000 BARRELS)	6,927.20		22.00	43.62	20.75	
18	AVERAGE HEAT CONTENT (BTU/GAL)	144,679		144,517	140,740	134,000	
19	AVERAGE SULFUR CONTENT (%)	.47		.50	.50	.18	
20	GAS: CONSUMPTION (1,000 MCF)			3,150.10	8,201.90	4,921.00	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)			1,100	1,043	1,020	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2		3	2	3	
23	- NO. OF WET BOTTOM						
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS						
26	- NO. WITH ELECTROSTATIC PRECIPITATORS						
27	- NO. WITH COMBINATION PRECIPITATORS 4/						
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	13.00			8.00	11.00 13.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH						
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH						
34	TESTED, LOW - HIGH						
35	EST., LOW - HIGH						
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	1.16			.01		
40	SULFUR DIOXIDE (1,000 TONS)	10.92		.04	.07		
41	NITROGEN OXIDES (1,000 TONS)	15.27		.66	1.70	.90	
42	STACKS: - TOTAL NO.	4		3	2	3	
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	250.00		68.00 79.50	66.00 145.50	91.00 92.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	.70					
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	.01					
46	SOLD (1,000 TONS) 11/						
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
51	ELECTROSTATIC PRECIPITATORS ($1,000)						
52	COMBINATION PRECIPITATORS ($1,000) 4/						
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	256.40		31.90	68.00		
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	2.90					
56	REVENUES FROM SALE OF ASH ($1,000)						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	2.90					
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	M BOSTON	B CAPE COD	L WEATHERFORD	L PALO PINTO	R	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	633.70	599.00	83.33	118.60		
63	AVERAGE RATE OF DISCHARGE (CFS)	633.70	599.00	83.33	118.60		
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	5.45	5.13	.72	1.02		
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	JUL OEC	JUL OEC	JUN OEC	JUL FEB	JUL NOV	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	75.00 42.00	56.30 42.60	83.40 60.00	82.00 51.00	90.00 88.00	
67	AT OUTFALL, SUMMER - WINTER	91.00 58.00	86.20 58.30	99.00 90.00	91.50 78.50	111.00 106.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	TIDAL BASIN	880.00	133.68	285.90		
69	- WINTER	TIDAL BASIN	603.00	66.84	123.99		
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O 16/	H		C			
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP			.16	.09	.35	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	152.87		8.05	15.88	.75	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP			4.16	10.11		
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	21.64	101.46		.20		
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES		YES	YES	YES	
77	SEWAGE DISPOSAL METHOD PS, ST, SW, OT 18/	PS	ST	ST	ST	PS	
78	RECEIVING WATER BODY						
79	POND DISCHARGE 19/: , BOILER BLOWDOWN - ASH SETTLING			9.60	9.80		
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN			216.00	287.31		
82	- ASH SETTLING						

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)			3 75.00	2 188.00		
84	ONCE THROUGH COOLING (SALINE)	2 760.00	1 1,998.00				
85	COOLING POND(S)					2 31.00	
86	COOLING TOWER(S)					1 22.00	
87	COMBINATION 20/						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1965 1967	1970	1958 1963	1968 1972	1949 1959	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 21/	15.80 16.20	29.00	15.00	13.40 15.50		
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	757.50	692.00	142.40	312.00	1,532.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,348.00	692.00	133.00	312.00		

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,476.90	4,110.00	399.60	586.00		
93	COOLING PONDS ($1,000)						
94	COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	33.90	129.40	1.40	5.00		
96	COST OF CHEMICAL ADDITIVES ($1,000)	7.50	28.60		.40		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	92.20	14.00	6.00	11.00		
98	COST OF CHEMICAL ADDITIVES ($1,000)	39.10	.70	3.50	6.90	1.00	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	BURBANK PUBLIC SERVICE DEPT	CAJUN ELECTRIC POWER COOP	CAMBRIDGE ELEC. LIGHT CO.	CAROLINA OPERATING CO.	CAROLINA POWER & LIGHT CO.	1
2							2
3							3
4	NAME OF PLANT	BURBANK	BIG CAJUN #1	KENDALL SQUARE	CAROLINA	ASHEVILLE	4
5	UTILITY-PLANT CODE	059000-0100	062750-0100	065000-0200	070000-0100	072000-0100	5
6	STATE	CALIFORNIA	LOUISIANA	MASSACHUSETTS	OHIO	NORTH CAROLINA	6
7	COUNTY	LOS ANGELES	POINTE COUPEE	MIDDLESEX	JEFFERSON	BUNCOMBE	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	024 18	106 08	119 01	181 05	171 06	8
9	PLANT CAPACITY (MW)	169.00	230.00	47.45	1,180.00	413.63	9
10	ANNUAL GENERATION (MWH) 3/	742,001	1,046,207	319,625	7,338,000	2,393,600	10
11	PLANT HEAT RATE (BTU/KWH) 3/	12,027	11,012	15,837	9,254	9,501	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)				2,987.80	948.39	12
13	AVERAGE HEAT CONTENT (BTU/LB)				11,338	11,936	13
14	AVERAGE SULFUR CONTENT (%)				2.97	1.38	14
15	AVERAGE ASH CONTENT (%)				16.01	11.03	15
16	AVERAGE MOISTURE CONTENT (%)				6.44	5.61	16
17	OIL: CONSUMPTION (1,000 BARRELS)	1,010.80	49.10	744.00	27.80	16.07	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	148,319	139,023	145,722	134,500	138,917	18
19	AVERAGE SULFUR CONTENT (%)	.40	.75	.42	.10	.10	19
20	GAS: CONSUMPTION (1,000 MCF)	1,696.40	10,669.00	500.00			20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,056	1,053	1,016			21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	7	2	3	2	2	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS	6					25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS			3	2	2	26
27	- NO. WITH COMBINATION PRECIPITATORS 4/						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	12.60 15.00	8.00	20.00	20.00	18.00 20.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH	23.00 40.00					32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH				95.00	99.00 99.30	33
34	TESTED, LOW - HIGH					95.60 99.50	34
35	EST., LOW - HIGH				92.00	95.60 99.50	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.15	.01	.13	32.53	2.12	39
40	SULFUR DIOXIDE (1,000 TONS)	1.36	.12	1.05	173.93	25.66	40
41	NITROGEN OXIDES (1,000 TONS)	2.57	2.19	1.74	26.95	8.57	41
42	STACKS: - TOTAL NO.	6	2	2	2	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	66.00 150.00	185.00	175.00	825.00	392.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/			.04			44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/			.05	460.90	103.80	45
46	SOLD (1,000 TONS) 11/			.05	9.70		46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	81.00					50
51	ELECTROSTATIC PRECIPITATORS ($1,000)				2,702.00	2,914.00	51
52	COMBINATION PRECIPITATORS ($1,000) 4/						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	114.00		44.00	3,142.00	505.20	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)			2.00		112.34	55
56	REVENUES FROM SALE OF ASH ($1,000)			2.00			56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/			17.00		112.34	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)			2.00			60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	M	W	R CHARLES	R OHIO	R FRENCH BROAD	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	2.90	4.36	110.00	1,782.00	1.30	62
63	AVERAGE RATE OF DISCHARGE (CFS)	1.20	1.71	110.00	1,782.00	3.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	1.70	4.36	.95	15.33		64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/			AUG JAN	AUG OEC	AUG OEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	78.00 70.00		84.80 47.00	84.80 47.00	75.00 40.00	66
67	AT OUTFALL, SUMMER - WINTER	80.00 72.00		95.00 52.00	95.80 59.30	94.00 71.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			100.00	15,800.00	1,720.00	68
69	- WINTER			200.00	67,590.00	3,874.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, O, O 16/	M					70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS) 1, COOLING WATER - BOILER MAKEUP	.41 .13	.60	.50		.74	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	57.45	29.18	50.00	24.50		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP			2.25			73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	32.00	1.67	1.50	87.50 1.35		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES YES	YES YES	YES	YES	YES YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 16/	PS		PS	OT	PS	77
78	RECEIVING WATER BODY				R OHIO		78
79	POND DISCHARGE 10/: PH, BOILER BLOWDOWN - ASH SETTLING				8.00	8.00	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				5.00	10.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN					[illegible]	81
82	- ASH SETTLING					60,000.00	82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING 2/: ONCE THROUGH COOLING (FRESH)			3 75.00	2 1,180.00		83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING PONDS					2 392.68	85
86	COOLING TOWERS	6 169.00	2 230.00				86
87	COMBINATIONS 17/						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1949 1964	1971	1949 - 1957	1967	1963	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 18/	16.00	17.00	15.00	12.60	17.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	299.30	33.60	121.00	1,617.40	456.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)			110.00	1,782.00		91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)			100.00	2,307.00		92
93	COOLING PONDS ($1,000)					2,732.00	93
94	COOLING TOWERS ($1,000)		512.00				94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	23.93	4.00	14.30		85.95	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	30.36	1.00	.40	9.15	2.21	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	7.47	172.00	110.00		42.53	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	4.95	3.00	11.00	8.05	.97	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	CAROLINA POWER & LIGHT CO.	CAROLINA POWER & LIGHT CO.	CAROLINA POWER & LIGHT CO.	CAROLINA POWER & LIGHT CO.	CAROLINA POWER & LIGHT CO.	
NAME OF PLANT	CAPE FEAR	ROBINSON	LEE	ROX8ORO	SUTTON	
UTILITY-PLANT CODE	072000-0300	072000-0400	072000-0500	072000-0900	072000-1000	
STATE	NORTH CAROLINA	SOUTH CAROLINA	NORTH CAROLINA	NORTH CAROLINA	NORTH CAROLINA	
COUNTY	CHATHAM	DARLINGTON	WAYNE	PERSON	NEW HANOVER	
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	166 03	201 03	170 03	164 03	170 03	
PLANT CAPACITY (MW)	420.97	975.32	402.45	1,813.05	671.62	
ANNUAL GENERATION (MWH) 3/	1,887,600	1,106,200	2,077,500	8,647,300	2,983,500	
PLANT HEAT RATE (BTU/KWH) 3/	9,736	10,081	9,886	9,309	10,652	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	740.40	302.18	801.10	3,209.90	150.10	
AVERAGE HEAT CONTENT (BTU/LB)	12,340	12,170	12,702	12,488	11,832	
AVERAGE SULFUR CONTENT (%)	1.25	1.05	1.10	1.30	1.26	
AVERAGE ASH CONTENT (%)	11.80	10.98	9.90	10.90	14.63	
AVERAGE MOISTURE CONTENT (%)	5.80	5.31	5.90	4.50	6.43	
OIL: CONSUMPTION (1,000 BARRELS)	7.27	16.18	13.33	55.40	4,510.94	
AVERAGE HEAT CONTENT (BTU/GAL)	139,400	138,774	138,378	139,354	147,812	
AVERAGE SULFUR CONTENT (%)	.08	.40	.08	.10	2.10	
GAS: CONSUMPTION (1,000 MCF)		3,595.67	105.20		4.45	
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,029	1,031		1,030	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	10	1	3	4	3	
- NO. OF WET BOTTOM					1	
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS	4	1	3	2	1	
- NO. WITH ELECTROSTATIC PRECIPITATORS				2	1	
- NO. WITH COMBINATION PRECIPITATORS 4/	1				1	
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	20.00 40.00	20.00	20.00 25.00	20.00	6.00 23.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00	85.00	85.00	85.00	85.00	
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH		80.00	80.00	80.00	80.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	99.40			99.00	99.00 99.50	
TESTED, LOW - HIGH						
EST., LOW - HIGH				88.00	97.00 98.00	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	11.14	5.64	13.48	53.38	.59	
SULFUR DIOXIDE (1,000 TONS)	18.14	6.24	17.27	81.81	35.49	
NITROGEN OXIDES (1,000 TONS)	6.66	3.46	7.23	29.01	11.30	
STACKS: - TOTAL NO.	4	1	2	3	2	
- HEIGHT (FEET), LOWEST - HIGHEST 8/	148.00 275.00	250.00	200.00 300.00	399.00 800.00	200.00 552.50	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						
TOTAL ASH: COLLECTED (1,000 TONS) 10/	87.40	28.00	66.70	287.00	22.78	
SOLD (1,000 TONS) 11/					.01	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	200.80	89.60	222.80	370.70	71.00	
ELECTROSTATIC PRECIPITATORS ($1,000)					3,050.00	
COMBINATION PRECIPITATORS ($1,000) 4/	1,779.00				2,580.00	
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	168.10	105.60	200.60	541.40	1,061.50	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	51.00	10.00	120.00	250.00	33.00	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	51.00	10.00	120.00	250.00	201.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)					.89	

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R CAPE FEAR	C BLACK	R NEUSE	R HYCO	R CAPE FEAR	
AVERAGE RATE OF WITHDRAWAL (CFS)	400.00	873.00	13.00	1,630.00	5.96	
AVERAGE RATE OF DISCHARGE (CFS)	400.00	873.00	13.00	1,630.00	5.96	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/						
PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG OEC	AUG OEC	AUG OEC	AUG OEC	AUG OEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	86.00 56.00	104.00 78.00	96.00 72.00	76.00 52.00		
AT OUTFALL, SUMMER - WINTER	111.00 79.00	104.00 78.00	119.00 90.00	93.00 [illegible]	[illegible]	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	1,605.00	[illegible]	1,265.00	[illegible]		
- WINTER	2,411.00	225.10	1,480.00	46.00		
FREQUENCY OF TEMPERATURE MONITORING: C, M, O, OTH 16/		C		C	D	
CHEMICAL ADDITIVES: PHOSPHATE (TONS) 1, COOLING WATER - BOILER MAKEUP		6.90	3.48	10.75		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		47.73				
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP	28.00		30.00	.09		
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	1.80		15.00 1.95	.25		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES YES	YES	YES	YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OTH 18/	ST		ST	ST	ST	
RECEIVING WATER BODY	R CAPE FEAR	L ROBINSON	R NEUSE	L ROX8ORO		
POND DISCHARGE 19/ PH, BOILER BLOWDOWN - ASH SETTLING	8.40	7.00	9.70	7.80	4.10	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	75.00	40.00		40.00	65.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN		[illegible]		[illegible]	[illegible]	
- ASH SETTLING	40,000.00	20,000.00	299.75	400,000.00	93,000.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	4 92.60					
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)		2 975.32	3 402.45	3 1,813.05	3 671.60	
COOLING TOWER(S)						
COMBINATION 21/						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	2 328.48					
1923 1958	1960	1962	1965	1972		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	15.00 21.00	20.00 22.40	17.00 23.00	25.40 25.50	18.00 19.60	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	598.00	1,254.00	612.00	1,582.00	830.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	598.00					

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	1,985.50				
COOLING PONDS ($1,000)		4,800.00	2,171.30	3,933.00	7,000.00
COOLING TOWERS ($1,000)	65.00				

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	73.00	6.00	687.00	85.00	110.00
COST OF CHEMICAL ADDITIVES ($1,000)	4.00	2.00	15.00	1.20	7.20

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	16.00	9.00	9.00	15.10	9.20
COST OF CHEMICAL ADDITIVES ($1,000)	7.00	7.01	7.00	10.00	3.50

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	1	CAROLINA POWER & LIGHT CO.		CEDAR FALLS UTILS		CENTRAL HUDSON GAS & ELECTRIC CO.		CENTRAL ELEC. POWER CORP.		CENTRAL ILLINOIS P.S. CO.		1
2		2											2
3		3											3
4	NAME OF PLANT	4	WEATHERSPOON		STREETER		OAKSHAMMER		CHAMOIS		COFFEEN		4
5	UTILITY-PLANT CODE	5	072000-1300		075500-0100		077000-0100		078000-0100		078500-0100		5
6	STATE	6	NORTH CAROLINA		IOWA		NEW YORK		MISSOURI		ILLINOIS		6
7	COUNTY	7	ROBESON		BLACK HAWK		ORANGE		OSAGE		MONTGOMERY		7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	8	169	03	088	07	161	02	137	10	075	07	8
9	PLANT CAPACITY (MW)	9	165.50		66.55		531.91		67.70		1,005.46		9
10	ANNUAL GENERATION (MWH)[3]	10	780,300		173,144		3,219,700		245,000		2,979,800		10
11	PLANT HEAT RATE (BTU/KWH)[3]	11	10,884		14,041		9,983		11,541		10,885		11
	AIR QUALITY CONTROL DATA												
	FUEL CONSUMPTION DATA (ANNUAL)												
12	COAL: CONSUMPTION (1,000 TONS)	12	289.70		51.97				129.00		1,721.90		12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	12,668		12,085				11,063		9,367		13
14	AVERAGE SULFUR CONTENT (%)	14	1.13		2.73				2.99		4.43		14
15	AVERAGE ASH CONTENT (%)	15	9.15		6.49				10.05		20.33		15
16	AVERAGE MOISTURE CONTENT (%)	16	7.23		6.15				11.90		15.46		16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	8.34				5,191.00				25.10		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	137,206				147,185				138,454		18
19	AVERAGE SULFUR CONTENT (%)	19	.11				1.54				.30		19
20	GAS: CONSUMPTION (1,000 MCF)	20	1,068.20		1,174.30		35.00						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,033		1,000		1,012						21
	PLANT EQUIPMENT DATA												
22	BOILERS: - TOTAL NO.	22	3		4		4		2		2		22
23	- NO. OF WET BOTTOM	23							1		2		23
24	- NO. WITH FLY ASH REINJECTION	24					3		1		2		24
25	- NO. WITH MECHANICAL PRECIPITATORS	25	3		3				1				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26			1		4				1		26
27	- NO. WITH COMBINATION PRECIPITATORS[4]	27											27
28	- NO. WITH DESULFURIZATION SYSTEMS	28											28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	29	20.00	20.00	30.00		15.00	8.00	25.00		16.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30	85.00	93.40	95.00				75.00				30
31	TESTED, LOW - HIGH	31			90.00				73.00				31
32	ESTIMATED, LOW - HIGH	32	80.00		90.00				65.00				32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	33			99.50		98.00				99.00		33
34	TESTED, LOW - HIGH	34			99.50	98.00	98.70						34
35	EST., LOW - HIGH	35			99.00		75.00			98.50	99.00		35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36											36
37	TESTED, LOW - HIGH	37											37
38	ESTIMATED, LOW - HIGH	38											38
	PLANT OPERATING DATA AND COST OF EQUIPMENT												
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	39	4.51		.15		.22		2.94		.44		39
40	SULFUR DIOXIDE (1,000 TONS)	40	6.42		2.78		26.82		7.56		149.73		40
41	NITROGEN OXIDES (1,000 TONS)	41	2.82		.63		11.45		3.01		47.47		41
42	STACKS: - TOTAL NO.	42	2		4		4		2		2		42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	43	200.00	127.00	306.00	220.00	240.00	146.00	147.60	350.00	500.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	44					.33						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	45	22.30		.31		.37		11.10		346.10		45
46	SOLD (1,000 TONS)[11]	46	4.90						10.30				46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47											47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]	48											48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49											49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50	90.60		37.00				15.60				50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51			575.00		2,973.00				3,029.00		51
52	COMBINATION PRECIPITATORS ($1,000)[4]	52											52
53	DESULFURIZATION SYSTEMS ($1,000)	53											53
54	STACKS ($1,000)	54	78.40		322.00		516.00		43.80		715.40		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55	79.70		6.20		130.00		21.50		378.90		55
56	REVENUES FROM SALE OF ASH ($1,000)	56											56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57											57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58											58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	59	79.70		20.20		290.00		21.50		378.90		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60	.49										60
	WATER QUALITY CONTROL DATA												
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R LUMBER		W		R HUDSON		R MISSOURI		O MCDAVID BR.		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	165.70		9.48		600.00		113.60				62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	165.70		9.28		600.00		113.60				63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	64			.20	5.16		.98	.01				64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	65	AUG	DEC	AUG	DEC	AUG	JAN	AUG	JAN	AUG	DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	80.00	46.00			82.00	36.00	84.00	33.00	86.00	46.00	66
67	AT OUTFALL, SUMMER - WINTER	67	90.00	52.00	97.00	97.00	97.00	58.00	102.00	55.00	108.00	72.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68		995.00						75,000.00			68
69	- WINTER	69		854.00						100,000.00			69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]	70			H				O				70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		3.57		.40		.42		.10		63.74	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72				15.50		104.00		10.90		1,650.09	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73								4.65		.72	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74						4.50		.43		5.30	74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75			.15		12.50				80.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	76	YES	YES	YES	YES		YES		YES		YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[16]	77			PS		OT		ST		OT		77
78	RECEIVING WATER BODY	78					R HUDSON		R MISSOURI		O MCDAVID BR.		78
79	POND DISCHARGE:[18] PH, BOILER BLOWDOWN - ASH SETTLING	79		7.50				7.00		8.90		7.50	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80		50.00								10.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81											81
82	- ASH SETTLING	82		10,000.00				49,000.00		2,600.00		76,000.00	82
	COOLING FACILITY DATA												
83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	83			3	28.75	4	531.91	2	67.70			83
84	ONCE THROUGH COOLING (SALINE)	84											84
85	COOLING POND(S)	85									2	1,004.96	85
86	COOLING TOWER(S)	86			1	37.80							86
87	COMBINATIONS[21]	87	3	165.50									87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1949	1952	1949	1973	1951	1967	1953	1960	1965	1972	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	89	14.00	16.70	13.00	31.00	14.03	14.99		15.00	19.00	21.95	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		269.00		89.26		686.00		106.90		817.40	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		297.90		16.00		686.00		113.60			91
	CAPITAL COSTS OF COOLING FACILITIES												
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92		1,050.30		20.00		3,603.00		569.00			92
93	COOLING PONDS ($1,000)	93		475.50								1,574.00	93
94	COOLING TOWERS ($1,000)	94				180.00							94
	ANNUAL COOLING WATER EXPENSES												
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95		58.40		2.00		82.00		17.60		1.60	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96		8.30		2.00		4.00				6.00	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES												
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97		9.30		20.00		250.00		8.00		56.70	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98		2.30		5.00		40.00		4.40		284.50	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	CENTRAL ILLINOIS P.S. CO.	CENTRAL ILLINOIS R.S. CO.	CENTRAL ILLINOIS P.S. CO.	CENTRAL ILLINOIS LIGHT CO.	CENTRAL ILLINOIS LIGHT CO.	1
2							2
3							3
4	NAME OF PLANT	GRAND TOWER	HUTSONVILLE	MEREDOSIA	EDWARDS	KEYSTONE	4
5	UTILITY-PLANT CODE	078500-0200	078500-0300	078500-0400	079000-0100	079000-0200	5
6	STATE	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS	6
7	COUNTY	JACKSON	CRAWFORD	MORGAN	PEORIA	PEORIA	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	074 07	074 05	075 07	065 07	065 07	8
9	PLANT CAPACITY (MW)	179.60	200.00	354.36	697.00	50.00	9
10	ANNUAL GENERATION (MWH) [3]	1,019,500	1,027,400	1,910,600	3,806,700	92,700	10
11	PLANT HEAT RATE (BTU/KWH) [3]	10,415	10,785	10,619	9,753	24,028	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	469.60	457.70	932.40	1,783.61			12
13	AVERAGE HEAT CONTENT (BTU/LB)	11,252	11,225	10,826	10,376			13
14	AVERAGE SULFUR CONTENT (%)	3.33	2.73	3.50	2.83			14
15	AVERAGE ASH CONTENT (%)	11.88	11.19	9.34	10.30			15
16	AVERAGE MOISTURE CONTENT (%)	10.88	12.78	16.42	16.54			16
17	OIL: CONSUMPTION (1,000 BARRELS)	3.00	141.60	16.70	7.34			17
18	AVERAGE HEAT CONTENT (BTU/GAL)	136,560	137,314	138,144	137,600			18
19	AVERAGE SULFUR CONTENT (%)	.50	.17	.40	.10			19
20	GAS: CONSUMPTION (1,000 MCF)					2,227.38		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)					1,000		21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	9	6	5	3	4		22
23	- NO. OF WET BOTTOM				2			23
24	- NO. WITH FLY ASH REINJECTION					4		24
25	- NO. WITH MECHANICAL PRECIPITATORS							25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	3	1	1	3			26
27	- NO. WITH COMBINATION PRECIPITATORS [4]							27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	25.00 30.00	22.00 25.00	25.00	18.00 20.00	25.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					60.00		30
31	TESTED, LOW - HIGH							31
32	ESTIMATED, LOW - HIGH							32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	97.10	97.50	97.00	97.00 99.00			33
34	TESTED, LOW - HIGH	97.70 98.70		94.70 99.60	97.70 99.40			34
35	EST., LOW - HIGH	98.00		95.00 99.00				35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.95	21.68	2.83	1.51			39
40	SULFUR DIOXIDE (1,000 TONS)	30.65	24.52	63.99	98.93			40
41	NITROGEN OXIDES (1,000 TONS)	4.23	4.42	8.43	21.79	.43		41
42	STACKS: - TOTAL NO.	5	4	5	2	4		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	155.00 301.00	197.00	201.70 300.00	500.00 503.00	91.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	55.90	52.60	73.80	178.36			45
46	SOLD (1,000 TONS) [11]				4.87			46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	2,239.00	1,017.00	687.00	1,778.21			51
52	COMBINATION PRECIPITATORS ($1,000) [4]							52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	89.00	89.10	110.00	2,946.24	24.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55.60	120.70	45.70	161.00			55
56	REVENUES FROM SALE OF ASH ($1,000)				5.83			56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	55.60	120.70	45.70	161.00			59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)				5.83			60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MISSISSIPPI	R WABASH	R ILLINOIS	R ILLINOIS	R ILLINOIS		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	336.00	220.00	280.00	560.00	55.30		62
63	AVERAGE RATE OF DISCHARGE (CFS)	336.00	220.00	280.00	560.00	55.30		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	2.89	1.89	2.41	4.82	.48		64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG DEC	AUG DEC	AUG DEC	AUG DEC	AUG DEC		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	82.00 40.00	81.00 45.00	81.00 40.00	84.00 38.00	87.00 48.00		66
67	AT OUTFALL, SUMMER - WINTER	94.00 59.00	97.00 67.00	104.00 59.00	101.00 68.00	105.00 58.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	146,000.00	6,000.00	14,626.00	22,000.00	22,000.00		68
69	- WINTER	93,500.00	11,900.00	16,779.00	22,500.00	22,500.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, D, OT [16]				C			70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.45	2.00	.30		2.80		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	33.41	.05	83.50	435.32	61.33		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	8.00 27.00	20.92	25.25	40.00	74.19		73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	22.50		8.35	3.32	.91		74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.20	24.00	64.00	48.00	5.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES YES	YES	YES YES	YES	YES		76
77	SEWAGE DISPOSAL: METHOD RS, ST, SW, OT [18]	OT	OT	SW	ST	ST		77
78	RECEIVING WATER BODY	R MISSISSIPPI	R WABASH	R ILLINOIS				78
79	PEAK DISCHARGE [19] PH, BOILER BLOWDOWN - ASH SETTLING	9.80 8.50	10.30 7.50	9.30 7.80	10.00 9.20	11.00 8.40		79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	39.00	100.00 124.00	400.00	518.00	5.00 500.00		80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	11,500.00	146.40	12,000.00	1,250.00	103.00		81
82	- ASH SETTLING	33,000.00	103,347.00	32,000.00	135,000.00	44.91		82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	4 232.60	4 212.50	3 354.40	3 738.00	4 54.35		83
84	ONCE THROUGH COOLING (SALINE)							84
85	COOLING PONDS(S)							85
86	COOLING TOWER(S)							86
87	COMBINATION [21]							87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1924 1958	1940 1954	1948 1960	1960 1972	1918 1956		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	8.60 15.15	16.40 20.70	9.50 16.00	17.16 20.00	15.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	511.00	400.00	605.00	883.82	155.74		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	492.00	400.00	605.00	1,090.60	155.70		91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,705.00	278.10	313.50	2,800.00	640.00		92
93	COOLING PONDS ($1,000)							93
94	COOLING TOWERS ($1,000)							94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	7.50	64.30	6.10	54.00	14.90		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	2.40	4.20	5.90	5.24	.74		96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	8.60	30.50	34.00	74.71	51.43		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	7.70	3.60	16.50	21.37	11.08		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	CENTRAL ILLINOIS LIGHT CO.	CENTRAL LOUISIANA ELECTRIC CO.	CENTRAL LOUISIANA ELECTRIC CO.	CENTRAL MAINE PWR CO.	CENTRAL MAINE PWR CO.	
4	NAME OF PLANT	WALLACE	COUGHLIN	TECHE	MASON	WYMAN	
5	UTILITY-PLANT CODE	079000-0400	080000-0200	080000-1000	080500-1600	080500-2700	
6	STATE	ILLINOIS	LOUISIANA	LOUISIANA	MAINE	MAINE	
7	COUNTY	TAZEWELL	EVANGELINE	ST. MARY	LINCOLN	CUMBERLAND	
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	069 07	106 08	106 08	101 01	110 01	
9	PLANT CAPACITY (MW)	305.00	483.38	427.90	147.00	214.00	
10	ANNUAL GENERATION (MWH)[3]	984,500	1,689,700	1,881,000	748,400	1,487,800	
11	PLANT HEAT RATE (BTU/KWH)[3]	12,370	11,008	10,187	13,286	10,541	
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	424.15					
13	AVERAGE HEAT CONTENT (BTU/LB)	10,338					
14	AVERAGE SULFUR CONTENT (%)	2.59					
15	AVERAGE ASH CONTENT (%)	9.17					
16	AVERAGE MOISTURE CONTENT (%)	17.78					
17	OIL: CONSUMPTION (1,000 BARRELS)		52.64		1,596.60	2,502.20	
18	AVERAGE HEAT CONTENT (BTU/GAL)		138,000		148,316	149,049	
19	AVERAGE SULFUR CONTENT (%)		.20		2.17	2.10	
20	GAS: CONSUMPTION (1,000 MCF)	3,421.32	16,636.46	17,647.39			
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,000	1,087	1,081			
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	10	7	3	7	3	
23	- NO. OF WET BOTTOM				3		
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS	2			5	3	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	4					
27	- NO. WITH COMBINATION PRECIPITATORS[4]				2		
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	18.00	18.00	18.00	12.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	60.00			86.00	85.00	
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH	85.00			40.00	40.00	
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	98.00			95.00		
34	TESTED, LOW - HIGH						
35	EST., LOW - HIGH	97.00			96.00		
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	1.47	.01		.08	.25	
40	SULFUR DIOXIDE (1,000 TONS)	25.03	.04		11.61	17.63	
41	NITROGEN OXIDES (1,000 TONS)	5.10	3.36	3.44	3.52	5.52	
42	STACKS: - TOTAL NO.	5	7	3	7	3	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	195.00	119.00	164.00	149.00	194.50	
44	COMBUSTION COMPLEX ADDITIVES (1,000 TONS)[9]					.18	
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	38.47			.29	.35	
46	SOLD (1,000 TONS)[11]	12.93				.03	
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	38.00			79.90	180.80	
51	ELECTROSTATIC PRECIPITATORS ($1,000)	436.70					
52	COMBINATION PRECIPITATORS ($1,000)[4]				187.00		
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	42.60			237.90	390.50	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	185.88					
56	REVENUES FROM SALE OF ASH ($1,000)	18.68				6.90	
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	185.88					
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	18.68				6.90	
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R ILLINOIS	O BAYOU COCODRIE	O CHARNTON CANAL	B SNEEPSCOTT	B CASCO	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	273.00	32.00	318.00	175.23	173.42	
63	AVERAGE RATE OF DISCHARGE (CFS)	273.00	16.00	318.00	175.22	173.30	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]		16.00		.01	.12	
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	2.35 AUG	DEC	2.71 JUL	NOV	1.91 AUG	1.49 JAN	AUG	JAN
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	87.00	48.00	94.00	72.40	94.00	78.00	64.00	42.00	70.00	36.00	
67	AT OUTFALL, SUMMER - WINTER	106.00	70.00	114.00	73.00	114.00	93.00	98.00	69.00	116.00	80.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	22,000.00		104.00								
69	- WINTER	22,500.00		383.00								
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]											
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.20	2.93	.45	.08	.08	1.41		1.62			
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	125.76	20.75	20.75	13.49	13.49	14.50					
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	45.18										
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	3.38	10.28				12.40	4.46				
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	62.00	4.65		.06							
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	OT	OT	ST					ST		
78	RECEIVING WATER BODY		O BAYOU COCODRIE	O CHARNTON CANAL	B SNEEPSCOTT					B CASCO		
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	10.00	8.90				65.00		6.80			
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	550.00	579.00				179.00		240.00			
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN		281.00									
82	- ASH SETTLING	97,719.55										
	COOLING FACILITY DATA											
83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	7 349.30	1 25.00	3 427.90								
84	ONCE THROUGH COOLING (SALINE)				5 139.00		3 209.18					
85	COOLING PONDS)		6 458.28									
86	COOLING TOWERS)											
87	COMBINATION[21]											
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1925 1958	1952 1971	1953 1971	1942 1955	1957 1965						
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	18.00	10.00 22.00	15.00 26.00	13.00 24.00	15.50 20.00						
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	641.65	562.10	371.60	262.10	251.60						
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	730.35	126.90	371.60	262.10	251.60						
	CAPITAL COSTS OF COOLING FACILITIES											
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	2,355.00			1,362.50	1,411.20						
93	COOLING PONDS ($1,000)		1,000.00									
94	COOLING TOWERS ($1,000)											
	ANNUAL COOLING WATER EXPENSES											
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	63.08										
96	COST OF CHEMICAL ADDITIVES ($1,000)	6.77	6.31		3.10	1.00						
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES											
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	85.52										
98	COST OF CHEMICAL ADDITIVES ($1,000)	14.71	4.24	6.40	6.00	16.70						

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	CENTRAL OPERATING CO.	CENTRAL P&L CO.	CENTRAL P&L CO.	CENTRAL P&L CO.	CENTRAL P&L CO.	
NAME OF PLANT	SPORN	BATES	LAREDO	HILL	NUECES BAY	
UTILITY-PLANT CODE	081000-0100	082000-0200	082000-0300	082000-0400	082000-0500	
STATE	WEST VIRGINIA	TEXAS	TEXAS	TEXAS	TEXAS	
COUNTY	MAOISON	HIDALGO	ME88	NUECES	NUECES	
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	OS	13	13	12	12	
PLANT CAPACITY (MW)	1,060.00	188.TO	T2.00	5T4.20	595.SO	
ANNUAL GENERATION (MWH) 3/	6,T83,213	831,800	349,600	2,043,100	2,239,TOO	
PLANT HEAT RATE (BTU/KWH) 3/	9,1T9	11,208	12,955	10,S28	9,921	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	2,TT8.00					
AVERAGE HEAT CONTENT (BTU/LB)	11,453					
AVERAGE SULFUR CONTENT (%)	1.26					
AVERAGE ASH CONTENT (%)	15.10					
AVERAGE MOISTURE CONTENT (%)	7.11					
OIL: CONSUMPTION (1,000 BARRELS)	55.00	14.TO	.0T	24.40	297.10	
AVERAGE HEAT CONTENT (BTU/GAL)	13T,000	140,000	140,000	140,000	140,00D	
AVERAGE SULFUR CONTENT (%)	.10	.TO	.44	.60	.70	
GAS: CONSUMPTION (1,000 MCF)		8,661.DO	4,221.SO	20,675.30	19,979.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,062	1,073	1,039	1,031	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	5	2	2	4	S	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS	4					
- NO. WITH ELECTROSTATIC PRECIPITATORS	1					
- NO. WITH COMBINATION PRECIPITATORS 4/						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	20.00	T.00	8.00	T.00	1S.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, - HIGH	85.00					
TESTED, - HIGH	90.00					
ESTIMATED, - HIGH	85.00					
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, - HIGH	95.00					
TESTED, - HIGH	83.20					
EST., - HIGH	83.20					
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, - HIGH						
TESTED, - HIGH						
ESTIMATED, - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	53.74				.05	
SULFUR DIOXIDE (1,000 TONS)	68.62	.03		.05	.TO	
NITROGEN OXIDES (1,000 TONS)	25.12	1.T2	.82	4.09	4.55	
STACKS: - TOTAL NO.	2	2	2	5	4	
- HEIGHT (FEET), LOWEST - HIGHEST 8/	601.50	149.00	110.00	149.00	136.00 1TT.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						
TOTAL ASH: COLLECTED (1,000 TONS) 10/	386.10					
SOLD (1,000 TONS) 11/	11.60					
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000) 13/						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	1,160.00	13T.20	20.TO	330.60	214.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 14/						
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R OHIO	O IRRIG. DIST.	R RIO GRANDE	N	O SNIP CHANNEL	
AVERAGE RATE OF WITHDRAWAL (CFS)	1,500.00	2.84	1.40	4.86	S85.90	
AVERAGE RATE OF DISCHARGE (CFS)	1,500.00	.56	.24	.87	585.90	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 15/		2.28	1.16	3.99		
PEAK LOAD MONTH : SUMMER - WINTER 16/	AUG	OEC			AUG	NOV
MAX. TEMP, DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	83.00	S0.00			89.00	78.00
AT OUTFALL, SUMMER - WINTER		63.00			104.00	101.00
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER					TIDAL	
- WINTER	74,000.00				TIDAL	
FREQUENCY OF TEMPERATURE MONITORING: C, M, D, O 17/						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.1T	.07	.20	.40	.35	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.02	31.98		35.70	14T.65	
LIME (TONS), COOLING WATER - BOILER MAKEUP	8.00	10.00				
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP						
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 18/	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: NETNDD PS, ST, SW, DT 19/	ST	ST	ST	ST	ST	
RECEIVING WATER BODY						
POND DISCHARGE 20/: PN, - ASH SETTLING	4.20					
SUSPENDED SOLIDS (PPM), - ASH SETTLING	161.00					
VOLUME (1,000 CUFT/YR), - ASH SETTLING	T6,6DD.DO					

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	S 1,10S.60					
ONCE THROUGH COOLING (SALINE)					S S95.50	
COOLING PONDS(S)						
COOLING TOWER(S)		2 188.70	2 72.00	4 ST4.20		
COMBINATIONS 21/						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1960	1960	19SS	1969	19T2	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	12.6D	16.90	1S.50	22.20	1T.70	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,561.6D	268.00	120.00	689.00	841.20	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,607.00				841.20	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)					3,397.00	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)		1,794.00	759.00	3,425.00		

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		16.SO	21.80	68.40	2T.50	
COST OF CHEMICAL ADDITIVES ($1,000)	10.20	12.3D	7.3D	16.70	7.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		18.50	15.50	20.00	23.00	
COST OF CHEMICAL ADDITIVES ($1,000)	8.41	7.31	2.81	5.70	15.70	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	CENTRAL P&L CO.	CENTRAL P&L CO.	CENTRAL P&L CO.	CENTRAL TELE & UTIL. CORP - W PWR DIV.	CENTRAL TELE & UTIL. CORP - W PWR DIV.
2					CIMARRON RIVER	LARGE
3						
4	NAME OF PLANT	LA PALMA	VICTORIA	JOSLIM		
5	UTILITY-PLANT CODE	082000-0600	082000-0700	082000-0800	082500-0100	082500-0300
6	STATE	TEXAS	TEXAS	TEXAS	KANSAS	KANSAS
7	COUNTY	CAMERON	VICTORIA	CALHOUM	SEWARD	FORD
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	13	12	19	11	11
9	PLANT CAPACITY (MW)	230.20	553.50	261.00	50.00	179.50
10	ANNUAL GENERATION (MWH)[3]	1,124,500	2,321,700	1,218,800	323,900	605,600
11	PLANT HEAT RATE (BTU/KWH)[3]	11,317	10,564	10,033	12,603	10,907
	AIR QUALITY CONTROL DATA					
	FUEL CONSUMPTION DATA (ANNUAL)					
12	COAL: CONSUMPTION (1,000 TONS)					
13	AVERAGE HEAT CONTENT (BTU/LB)					
14	AVERAGE SULFUR CONTENT (%)					
15	AVERAGE ASH CONTENT (%)					
16	AVERAGE MOISTURE CONTENT (%)					
17	OIL: CONSUMPTION (1,000 BARRELS)	1.90	24.50	116.76		83.30
18	AVERAGE HEAT CONTENT (BTU/GAL)	140,000	140,000	140,000		150,393
19	AVERAGE SULFUR CONTENT (%)	.70	.36	.60		.77
20	GAS: CONSUMPTION (1,000 MCF)	11,804.20	23,238.00	10,992.00	3,595.00	6,548.00
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,076	1,049	1,023	1,032	930
	PLANT EQUIPMENT DATA					
22	BOILERS: - TOTAL NO.	7	4	1	1	5
23	- NO. OF WET BOTTOM					
24	- NO. WITH FLY ASH REINJECTION					
25	- NO. WITH MECHANICAL PRECIPITATORS					
26	- NO. WITH ELECTROSTATIC PRECIPITATORS					
27	- NO. WITH COMBINATION PRECIPITATORS[4]					
28	- NO. WITH DESULFURIZATION SYSTEMS					
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	15.00	8.00	6.00	5.00	15.00
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					
31	TESTED, LOW - HIGH					
32	ESTIMATED, LOW - HIGH					
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH					
34	TESTED, LOW - HIGH					
35	EST., LOW - HIGH					
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH					
37	TESTED, LOW - HIGH					
38	ESTIMATED, LOW - HIGH					
	PLANT OPERATING DATA AND COST OF EQUIPMENT					
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)			.02		.01
40	SULFUR OIOXIOE (1,000 TONS)		.03	.23		.22
41	NITROGEN OXIOES (1,000 TONS)	2.31	4.59	2.40	.70	1.46
42	STACKS: - TOTAL NO.	5	4	1	1	3
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	149.50	149.00	149.00	90.50	152.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]					
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]					
46	SOLD (1,000 TONS)[11]					
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]					
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)					
51	ELECTROSTATIC PRECIPITATORS ($1,000)					
52	COMBINATION PRECIPITATORS ($1,000)[4]					
53	DESULFURIZATION SYSTEMS ($1,000)					
54	STACKS ($1,000)	218.00	188.00	95.00	17.00	58.00
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)					
56	REVENUES FROM SALE OF ASH ($1,000)					
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)					
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)					
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]					
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)					
	WATER QUALITY CONTROL DATA					
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	M	R GUADALUPE	B COX	W	W
62	AVERAGE RATE OF WITHDRAWAL (CFS)	3.57	249.20	315.00	.90	3.30
63	AVERAGE RATE OF DISCHARGE (CFS)	1.12	245.10	315.00	.20	2.00
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	2.45	4.10	2.94	.70	1.30
65	PEAK LOAD MONTH : SUMMER - WINTER[15]		NOV	NOV	JUL JAN	JUL JAN
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		76.00	81.00		
67	AT OUTFALL, SUMMER - WINTER			95.00	86.00	84.00 50.00
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			TIDAL		
69	- WINTER			TIDAL		
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]					
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.18	.41	.45	.01	.03
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	32.00	41.08	25.78	8.95	2.08
73	LIME (TONS), COOLING WATER - BOILER MAKEUP					
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP					
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP			66.00	2.78	6.20
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES YES	YES YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[16]	PS	PS	SW	ST	ST
78	RECEIVING WATER BODY			B COX		
79	POMO DISCHARGE:[16] PH, BOILER BLOWDOWN - ASH SETTLING					
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN					
82	- ASH SETTLING					
	COOLING FACILITY DATA					
83	NO. OF UNITS AND CAPACITY (MW) USING[17]: ONCE THROUGH COOLING (FRESH)					2 12.00
84	ONCE THROUGH COOLING (SALINE)			1 261.00		
85	COOLING PONDS					
86	COOLING TOWERS	6 230.00	2 298.50		1 50.00	2 167.50
87	COMBINATION[4]		2 255.00			
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1926 1970	1952 1968	1971	1963	1932 1969
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[18]	11.50 16.10	18.00 22.60	15.00	10.60	10.30 20.10
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	379.80	622.70	325.00	93.60	242.34
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		288.40	258.00		13.40
	CAPITAL COSTS OF COOLING FACILITIES					
92	ONCE THROUGH COOLING SYSTEMS ($1,000)		383.00	1,622.00		8.00
93	COOLING PONDS ($1,000)					
94	COOLING TOWERS ($1,000)	109.00	2,247.00		299.00	970.00
	ANNUAL COOLING WATER EXPENSES					
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	52.20	51.70	20.90	15.00	22.00
96	COST OF CHEMICAL ADDITIVES ($1,000)	21.58	37.80	14.40	7.00	15.00
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES					
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	16.90	17.90	32.70	14.00	10.00
98	COST OF CHEMICAL ADDITIVES ($1,000)	7.68	9.10	8.30	2.00	2.00

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	CENTRAL TELE & UTIL. CORP - W PWR DIV.	CENTRAL TELE & UTIL. CORP. - SO. COLO. PWR. DIV.	CENTRAL TELE & UTIL. CORP. - SO. COLO. PWR. DIV.	AUSTIN CITY ELECTRIC DEPT	AUSTIN CITY ELECTRIC DEPT	
NAME OF PLANT	MULLERGREN	PUEBLO	CLARK	HOLLY STREET	SEAHOLM	
UTILITY-PLANT CODE	082500-0600	082500-1000	082500-1200	089500-0100	089500-0200	
STATE	KANSAS	COLORADO	COLORADO	TEXAS	TEXAS	
COUNTY	BARTON	PUEBLO	FREMONT	TRAVIS	TRAVIS	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	097 11	038 11	038 11	212 12	212 12	
PLANT CAPACITY (MW)	119.10	30.00	38.50	416.00	125.00	
ANNUAL GENERATION (MWH)[3]	579,200	217,000	327,800	996,838	354,080	
PLANT HEAT RATE (BTU/KWH)[3]	10,933	14,299	13,122	10,679	13,489	
AIR QUALITY CONTROL DATA						
FUEL CONSUMPTION DATA (ANNUAL)						
COAL: CONSUMPTION (1,000 TONS)		4.95	85.30			
AVERAGE HEAT CONTENT (BTU/LB)		10,426	9,814			
AVERAGE SULFUR CONTENT (%)		.70	.70			
AVERAGE ASH CONTENT (%)		15.00	17.00			
AVERAGE MOISTURE CONTENT (%)		11.00	10.16			
OIL: CONSUMPTION (1,000 BARRELS)	7.79	.59		292.55	196.21	
AVERAGE HEAT CONTENT (BTU/GAL)	151,059	142,000		147,500	147,500	
AVERAGE SULFUR CONTENT (%)	1.43	.30		1.00	1.00	
GAS: CONSUMPTION (1,000 MCF)	6,572.00	3,537.30	2,680.80	8,966.96	3,614.99	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	956	847	980	985	985	
PLANT EQUIPMENT DATA						
BOILERS: - TOTAL NO.	3	5	2	3	5	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION			2			
- NO. WITH MECHANICAL PRECIPITATORS		5	2			
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	12.00 15.00	12.50 30.00	24.00	10.00	10.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		93.00	88.00 93.00			
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH		93.00	93.00			
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
PLANT OPERATING DATA AND COST OF EQUIPMENT						
EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)		.04	1.67	.05	.03	
SULFUR DIOXIDE (1,000 TONS)	.04	.07	1.17	.98	.66	
NITROGEN OXIDES (1,000 TONS)	1.30	.73	1.16	2.39	1.14	
STACKS: - TOTAL NO.	4	2	2	3	5	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	132.00 146.00	150.00 270.00	150.00	154.00 156.00	80.00 120.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]		.75	16.10			
SOLD (1,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		12.00	46.00			
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	69.00	66.00	66.00			
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		3.20	8.90			
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		3.20	8.90			
TOTAL BYPRODUCT SALES REVENUES ($1,000)						
WATER QUALITY CONTROL DATA						
COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	R ARKANSAS	R ARKANSAS	R COLORADO	R COLORADO	
AVERAGE RATE OF WITHDRAWAL (CFS)	1.90	45.00	60.00	540.00	210.00	
AVERAGE RATE OF DISCHARGE (CFS)	.60	45.00	59.00	540.00	210.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.30	1.00	1.00	4.64	1.81	
PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL JAN	AUG DEC	AUG DEC		DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		72.00 44.00	70.00 39.00		75.00 50.00	
AT OUTFALL, SUMMER - WINTER	80.00 79.00	73.00 45.00	71.00 40.00		95.00 60.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		800.00	800.00		350.00	
- WINTER		500.00	300.00		150.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	2.27 .02	.05	.15		.48	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	7.38	.05	.10		.01	
LIME (TONS), COOLING WATER - BOILER MAKEUP	113.94					
ALUM (TONS), COOLING WATER - BOILER MAKEUP	3.62					
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	6.74	.25	1.00			
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES	YES		YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	PS	PS	PS	PS	
RECEIVING WATER BODY						
POND DISCHARGE[18] PH, BOILER BLOWDOWN - ASH SETTLING						
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING						
COOLING FACILITY DATA						
NO. OF UNITS AND CAPACITY (MW) USING[19]: ONCE THROUGH COOLING (FRESH)				3 416.00	5 125.00	
ONCE THROUGH COOLING (SALINE)						
COOLING PONDS						
COOLING TOWER(S)	3 119.10					
COMBINATION[21]		3 30.00	2 38.50			
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1953 1963	1922 1949	1955 1958	1960 1966	1951 1958	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	10.30 14.50	9.00 10.00	13.00 16.00	15.00	12.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	214.58	90.00	72.80	618.00	297.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		90.00	72.80	618.00	297.00	
CAPITAL COSTS OF COOLING FACILITIES						
ONCE THROUGH COOLING SYSTEMS ($1,000)		200.00	100.00			
COOLING PONDS ($1,000)		50.00	30.00			
COOLING TOWERS ($1,000)	714.00	298.00	73.00			
ANNUAL COOLING WATER EXPENSES						
OPERATION AND MAINTENANCE EXPENSES ($1,000)	52.00	20.20	13.30			
COST OF CHEMICAL ADDITIVES ($1,000)	17.00	1.20	.60			
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
OPERATION AND MAINTENANCE EXPENSES ($1,000)	21.00	9.00	37.20			
COST OF CHEMICAL ADDITIVES ($1,000)	2.00	.80	1.30		3.00	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	AUSTIN CITY ELECTRIC DEPT	BRYAN, CITY OF	FARMINGTON ELEC UTILITY SYS	LAFAYETTE CITY UTIL SYSTEM	LAFAYETTE CITY UTIL SYSTEM	
2							
3							
4	NAME OF PLANT	DECKER CREEK	BRYAN	ANINAS	BONIN	RODEMACHER	
5	UTILITY-PLANT CODE	089500-0300	091500-0100	092500-0100	094000-0100	094000-0300	
6	STATE	TEXAS	TEXAS	NEW MEXICO	LOUISIANA	LOUISIANA	
7	COUNTY	TRAVIS	BRAZOS	SAN JUAN	LAFAYETTE	LAFAYETTE	
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	212 12	212 12	014 14	106 08	106 08	
9	PLANT CAPACITY (MW)	321.00	128.60	33.00	143.25	42.65	
10	ANNUAL GENERATION (MWH)[3]	1,350,453	428,700	117,900	469,099	75,564	
11	PLANT HEAT RATE (BTU/KWH)[3]	9,928	10,565	13,055	10,198	12,456	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)						
13	AVERAGE HEAT CONTENT (BTU/LB)						
14	AVERAGE SULFUR CONTENT (%)						
15	AVERAGE ASH CONTENT (%)						
16	AVERAGE MOISTURE CONTENT (%)						
17	OIL: CONSUMPTION (1,000 BARRELS)	129.23	68.10		15.70		
18	AVERAGE HEAT CONTENT (BTU/GAL)	137,000	142,018		140,000		
19	AVERAGE SULFUR CONTENT (%)	1.00	.19		.10		
20	GAS: CONSUMPTION (1,000 MCF)	12,856.37	4,380.10	1,540.80	4,447.00	894.40	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	985	1,034	1,121	1,055	1,055	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	1	6	4	2	4	
23	- NO. OF WET BOTTOM						
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS						
26	- NO. WITH ELECTROSTATIC PRECIPITATORS						
27	- NO. WITH COMBINATION PRECIPITATORS[4]						
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	10.00	7.00	16.00	7.00	15.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN,	LOW - HIGH					
31	TESTED,	LOW - HIGH					
32	ESTIMATED,	LOW - HIGH					
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN,	LOW - HIGH					
34	TESTED,	LOW - HIGH					
35	EST.,	LOW - HIGH					
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN,	LOW - HIGH					
37	TESTED,	LOW - HIGH					
38	ESTIMATED,	LOW - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.02	.01				
40	SULFUR DIOXIDE (1,000 TONS)	.43	.04		.01		
41	NITROGEN OXIDES (1,000 TONS)	2.79	1.00	.30	.93	.18	
42	STACKS: - TOTAL NO.	1	6	3	2	3	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	88.30		70.00	131.00	62.00 69.20	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]						
46	SOLD (1,000 TONS)[11]						
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
51	ELECTROSTATIC PRECIPITATORS ($1,000)						
52	COMBINATION PRECIPITATORS ($1,000)[4]						
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)				13.90	8.30	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						
56	REVENUES FROM SALE OF ASH ($1,000)						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]						
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L OECKER	W	R ANINAS	W	W	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	405.00	1.57	63.00	168.00	101.00	
63	AVERAGE RATE OF DISCHARGE (CFS)	405.00	.79	63.00	70.00	43.00	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]		.78		98.00	57.00	
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG		AUG	OCT		
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	75.00	70.00	65.00	85.00	98.00 96.50	
67	AT OUTFALL, SUMMER - WINTER	85.00	75.00	85.00	93.00	79.00 76.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						
69	- WINTER			205.00	50.00	30.00	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]		H	D			
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.60	.15	.22	.02	.01	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		.25	.80	.03	.10	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP			.78			
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP						
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES		YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	PS	PS	PS	PS	
78	RECEIVING WATER BODY						
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING						
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
82	- ASH SETTLING						

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	1 321.00					
84	ONCE THROUGH COOLING (SALINE)						
85	COOLING POND(S)						
86	COOLING TOWER(S)		6 123.50		2 143.35	4 45.65	
87	COMBINATION[21]			4 33.00			
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1970	1950 1969	1957 1959	1969 1970	1958 1960	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	10.00		20.00	20.00	20.00	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	387.00		61.50	247.00	104.40	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	387.00		63.00			

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)			150.00			
93	COOLING PONDS ($1,000)						
94	COOLING TOWERS ($1,000)			300.00	509.21	257.53	

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)				8.00	5.00	
96	COST OF CHEMICAL ADDITIVES ($1,000)				13.70	2.52	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)			.50	.50	4.00	
98	COST OF CHEMICAL ADDITIVES ($1,000)			.70	20.00	3.31	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	INDEPENDENCE PWR & LIGHT DEPT	SAN ANTONIO CITY PUBL SERVICE BRD	SAN ANTONIO CITY PUBL SERVICE BRD	SAN ANTONIO CITY PUBL SERVICE BRD	SAN ANTONIO CITY PUBL SERVICE BRD	1
2							2
3							3
4	NAME OF PLANT	BLUE VALLEY	LEON CREEK	MISSION ROAD	BRAUNIG	TUTTLE	4
5	UTILITY-PLANT CODE	099500-0100	100000-0100	100000-0200	100000-0300	100000-0400	5
6	STATE	MISSOURI	TEXAS	TEXAS	TEXAS	TEXAS	6
7	COUNTY	JACKSON	BEXAR	BEXAR	BEXAR	BEXAR	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	094 10	217 12	217 12	217 12	217 12	8
9	PLANT CAPACITY (MW)	115.00	236.00	146.00	885.00	441.00	9
10	ANNUAL GENERATION (MWH)[3]	472,880	147,400	226,000	3,164,000	878,100	10
11	PLANT HEAT RATE (BTU/KWH)[3]	11,656	11,702	11,741	10,199	10,732	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	29.40					12
13	AVERAGE HEAT CONTENT (BTU/LB)	10,998					13
14	AVERAGE SULFUR CONTENT (%)	3.16					14
15	AVERAGE ASH CONTENT (%)	13.19					15
16	AVERAGE MOISTURE CONTENT (%)	10.81					16
17	OIL: CONSUMPTION (1,000 BARRELS)	3.50	141.39	45.48	276.23	305.14	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	140,000	144,098	145,130	140,570	144,827	18
19	AVERAGE SULFUR CONTENT (%)	.50	.61	.53	.31	.T4	19
20	GAS: CONSUMPTION (1,000 MCF)	4,858.90	953.28	2,335.15	29,040.40	7,798.96	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	997	983	1,019	1,021	1,019	21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	3	4	3	3	4	22
23	- NO. OF WET BOTTOM	3					23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS	3					25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS						26
27	- NO. WITH COMBINATION PRECIPITATORS[4]						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	3.50 4.00	10.00	10.00	7.00 10.00	10.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00 90.30					30
31	TESTED, LOW - HIGH	85.00 90.30					31
32	ESTIMATED, LOW - HIGH	85.00 90.30					32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[5]: DESIGN, LOW - HIGH						33
34	TESTED, LOW - HIGH						34
35	EST., LOW - HIGH						35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.31	.02	.01	.02	.05	39
40	SULFUR DIOXIDE (1,000 TONS)	1.83	.30	.08	.14	.76	40
41	NITROGEN OXIDES (1,000 TONS)	1.40	.51	.56	4.49	2.19	41
42	STACKS: - TOTAL NO.	3	3	2	3	5	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	192.50 250.00	150.00	150.00	174.00 187.00	149.50 150.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]						45
46	SOLD (1,000 TONS)[11]						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	58.80					50
51	ELECTROSTATIC PRECIPITATORS ($1,000)						51
52	COMBINATION PRECIPITATORS ($1,000)[4]						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	99.70	69.20	35.90	104.50		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	7.50					55
56	REVENUES FROM SALE OF ASH ($1,000)						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	7.50					59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, R, C, W, M & O EXPL. IN FOOTNOTES)	W	W	W	O SEWAGE EFFLNT.	W	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	1.70	.67	.90	T.25	3.64	62
63	AVERAGE RATE OF DISCHARGE (CFS)		.14	.18	3.03	.75	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.70	.44	.59	4.44	2.40	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG OEC	JUL OEC	JUL OEC	JUN OCT	JUN NOV	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	76.00	76.00	76.00	77.00 72.03	T6.00	66
67	AT OUTFALL, SUMMER - WINTER	95.00		95.00	105.00 95.07	105.00 95.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			153.80	VARIES	VARIES	68
69	- WINTER			240.00	3,000.00	VARIES	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OT[16]						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.04	.05	.05	.24	13.44 .23	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	13.58	30.03	18.85	176.73	51.89	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP				88.89		73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP				9.29		74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP				86.09 10.03	4.25	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	ST	PS	OT	ST	77
78	RECEIVING WATER BODY				O COOLING POND		78
79	POND DISCHARGE[19] PH, BOILER BLOWDOWN - ASH SETTLING	8.00			10.00	10.00	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				100.00	100.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING						82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)						83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING PONDS				3 894.01		85
86	COOLING TOWERS	3 115.00	4 263.64	3 163.64		4 493.96	86
87	COMBINATION[21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1958 1965	1949 1959	1945 1958	1963	1954 1963	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	15.00 17.00	15.00 17.40	11.00 18.00	16.00	17.80 18.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	199.30	391.90	248.90	1,394.00	656.10	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)						91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)						92
93	COOLING PONDS ($1,000)				4,717.00		93
94	COOLING TOWERS ($1,000)	325.28	1,113.50	925.00		1,891.00	94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)						95
96	COST OF CHEMICAL ADDITIVES ($1,000)	22.20	51.50 5.00	56.93 7.30	58.67 10.60	116.68 27.00	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)		.96	.96	.96	.96	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	1.90	4.60	3.30	67.50	8.90	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY		SAN ANTONIO CITY PUBL SERVICE BRD	SPRINGFIELD CITY UTILITIES	CLEVELAND ELEC. ILLUM. CO	CLEVELAND ELEC. ILLUM. CO	CLEVELAND ELEC. ILLUM. CO	
NAME OF PLANT		SOMMERS	JAMES RIVER	ASHTABULA	AVON LAKE	EAST LAKE	
UTILITY-PLANT CODE		100000-0500	101000-0100	104000-0100	104000-0200	104000-0300	
STATE		TEXAS	MISSOURI	OHIO	OHIO	OHIO	
COUNTY		BEXAR	GREENE	ASHTABULA	LORAIN	LAKE	
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]		217 12	139 11	178 04	174 04	174 04	
PLANT CAPACITY (MW)		440.00	257.00	640.00	1,275.00	1,257.00	
ANNUAL GENERATION (MWH) [3]		1,368,900	989,458	2,775,000	5,728,400	7,915,800	
PLANT HEAT RATE (BTU/KWH) [3]		9,679	12,265	11,428	10,388	9,512	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)			94.32	1,190.97	2,423.50	3,173.90	
AVERAGE HEAT CONTENT (BTU/LB)			11,688	11,589	11,684	11,845	
AVERAGE SULFUR CONTENT (%)			3.74	3.20	2.96	3.50	
AVERAGE ASH CONTENT (%)			17.97	14.31	12.02	11.20	
AVERAGE MOISTURE CONTENT (%)			3.37	6.87	7.32	6.18	
OIL: CONSUMPTION (1,000 BARRELS)		239.96		648.80	430.75	16.15	
AVERAGE HEAT CONTENT (BTU/GAL)		137,362		151,052	149,333	137,360	
AVERAGE SULFUR CONTENT (%)		.19		1.37	1.00	.10	
GAS: CONSUMPTION (1,000 MCF)		11,421.32	9,192.00				
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,022	1,017				

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	I		5	11	12	5	
- NO. OF WET BOTTOM							
- NO. WITH FLY ASH REINJECTION					I	1	
- NO. WITH MECHANICAL PRECIPITATORS			4				
- NO. WITH ELECTROSTATIC PRECIPITATORS			I	7	12	I	
- NO. WITH COMBINATION PRECIPITATORS [4]				4		4	
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	7.00	20.00 25.00		10.00 24.00	10.00 22.00	10.00 22.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		87.00 88.00					
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH		87.00 88.00					
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH		98.00	90.00 96.00	94.00 99.50	98.20 99.50		
TESTED, LOW - HIGH			93.20	88.60 97.10	95.00 99.50		
EST., LOW - HIGH		98.00	85.00 95.00	95.00 99.50	96.00 99.50		
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.04	.75	13.66	8.76	9.03		
SULFUR DIOXIDE (1,000 TONS)	.15	6.91	77.68	142.05	217.76		
NITROGEN OXIDES (1,000 TONS)	2.76	2.64	12.15	22.76	28.60		
STACKS: - TOTAL NO.	I	4	3	5	5		
- HEIGHT (FEET), LOWEST - HIGHEST [8]	172.50	200.00 350.00	274.00 400.00	277.00 600.00	300.00 600.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							
TOTAL ASH: COLLECTED (1,000 TONS) [10]		14.00	139.20	357.50	392.70		
SOLD (1,000 TONS) [11]							
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							
ELECTROSTATIC PRECIPITATORS ($1,000)		200.00	658.00	3,072.00	1,311.40		
COMBINATION PRECIPITATORS ($1,000) [4]					2,354.00		
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)	56.12	422.80	261.00	1,848.00	2,709.80		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		13.10	548.00	1,058.00	987.00		
REVENUES FROM SALE OF ASH ($1,000)							
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]		13.10	548.00	1,058.00	987.00		
TOTAL BYPRODUCT SALES REVENUES ($1,000)							

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R SAN ANTONIO	L SPRINGFIELD	L ERIE	L ERIE	L ERIE		
AVERAGE RATE OF WITHDRAWAL (CFS)	.44	315.50	658.00	947.00	1,270.00		
AVERAGE RATE OF DISCHARGE (CFS)	22.65	315.50	658.00	947.00	1,270.00		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	2.07		5.66	8.14	10.92		
PEAK LOAD MONTH : SUMMER - WINTER [15]	JUN OCT	AUG JAN	NOV	SEP NOV	SEP NOV		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	77.00 72.00	88.00 40.00	48.00	48.00	46.00		
AT OUTFALL, SUMMER - WINTER	105.00 95.00	95.00 60.00	55.00	63.00	63.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	1,245.00	30.00					
- WINTER	3,000.00	70.00					
FREQUENCY OF TEMPERATURE MONITORING: C, M, D, O [16]	C	D					
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.16	.46	10.80	3.30	.60		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		25.75	69.27	240.68	255.52		
LIME (TONS), COOLING WATER - BOILER MAKEUP			40.00	24.50	51.75		
ALUM (TONS), COOLING WATER - BOILER MAKEUP							
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	23.43	6.00	27.30	33.00	35.00		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	OT	ST	ST	PS	ST		
RECEIVING WATER BODY	L CALAVERAS		L ERIE		L ERIE		
POND DISCHARGE [19] PH, BOILER BLOWDOWN - ASH SETTLING			7.80	7.00	7.70		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			125.00	100.00	125.00		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING			50.46	1,300.00	47,700.00		

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)			9 640.00	9 1,275.00	5 1,257.00		
ONCE THROUGH COOLING (SALINE)							
COOLING POND(S)	1 446.40						
COOLING TOWER(S)							
COMBINATION [21]		5 257.00					
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1968	1957 1970	1942 1958	1926 1968	1955 1972		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	17.80	13.00 28.50	12.00 18.00	8.00 17.00	11.00 17.00		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	504.00	457.30	1,456.00	1,893.10	1,630.00		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		701.90	1,456.00	994.00	1,630.00		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)		849.50	4,124.00	3,929.00	5,221.80		
COOLING PONDS ($1,000)	14,267.00						
COOLING TOWERS ($1,000)		900.00					

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	44.14	80.10	174.00	161.00	200.00		
COST OF CHEMICAL ADDITIVES ($1,000)	2.40	.80	1.00	1.00	2.00		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	.96	12.30	310.00	421.00	329.00		
COST OF CHEMICAL ADDITIVES ($1,000)	4.10	8.70	22.00	48.00	52.00		

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	CLEVELAND ELEC. ILLUM. CO	COFFEYVILLE PWR AND LIGHT	COLO SPRINGS P&L DEPT.	COLO SPRINGS P&L DEPT.	COLORADO - UTE E. ASSN. INC.
NAME OF PLANT	LAKE SHORE	COFFEYVILLE	ORAKE	81ROSALL	HAYDEN
UTILITY-PLANT CODE	104000-0400	105500-0100	108000-0100	108000-0200	108500-0100
STATE	OHIO	KANSAS	COLORADO	COLORADO	COLORADO
COUNTY	CUYAHOGA	MONTGOMERY	EL PASO	EL PASO	ROUTT
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	174 04	098 11	038 11	038 11	040 14
PLANT CAPACITY (MW)	514.00	80.05	150.00	62.50	163.20
ANNUAL GENERATION (MWH) [3]	2,233,500	132,000	909,887	254,340	1,376,100
PLANT HEAT RATE (BTU/KWH) [3]	11,552	13,674	11,397	12,919	9,958

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	1,067.90		176.73		630.10	
AVERAGE HEAT CONTENT (BTU/LB)	12,059		10,126		10,869	
AVERAGE SULFUR CONTENT (%)	3.32		.76		.45	
AVERAGE ASH CONTENT (%)	11.82		12.59		10.34	
AVERAGE MOISTURE CONTENT (%)	5.72		12.04		10.01	
OIL: CONSUMPTION (1,000 BARRELS)	9.38	27.00		9.00	.97	
AVERAGE HEAT CONTENT (BTU/GAL)	136,315	148,000		149,686	130,000	
AVERAGE SULFUR CONTENT (%)	.10	.70		.80	.20	
GAS: CONSUMPTION (1,000 MCF)		1,637.06	6,582.00	3,259.30		
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,000	994	991		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	5	4	5	3	1	
- NO. OF WET BOTTOM	4		2			
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS			1			
- NO. WITH ELECTROSTATIC PRECIPITATORS	5				1	
- NO. WITH COMBINATION PRECIPITATORS [4]			1			
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	20.00 23.00	8.00 15.00	8.00 15.00	15.00	20.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			85.00			
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	90.00 99.40		99.50		98.50	
TESTED, LOW - HIGH	59.80 98.00		50.60 93.30		98.20	
EST., LOW - HIGH	82.00 99.00		98.60		96.00	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	5.45		.20		2.22	
SULFUR DIOXIDE (1,000 TONS)	69.49	.06	2.63	.02	5.56	
NITROGEN OXIDES (1,000 TONS)	13.35	.38	3.94	.67	5.67	
STACKS: - TOTAL NO.	5	2	5	3	1	
- HEIGHT (FEET), LOWEST - HIGHEST [8]	268.00 320.00	125.00 175.00	56.00 200.00	142.10	250.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]			7.20			
TOTAL ASH: COLLECTED (1,000 TONS) [10]	154.20		21.20		62.30	
SOLD (1,000 TONS) [11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			27.20		579.00	
ELECTROSTATIC PRECIPITATORS ($1,000)	1,399.00					
COMBINATION PRECIPITATORS ($1,000) [4]			266.30			
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	481.00		220.10		215.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	953.00		38.70		32.70	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	953.00		38.70		32.70	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L ERIE	M	M	M	R YAMPA	
AVERAGE RATE OF WITHDRAWAL (CFS)	456.00	1.07	2.32	.95	7.30	
AVERAGE RATE OF DISCHARGE (CFS)	456.00	.10	.43	.24	.50	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	3.92	.97	1.89	.71	6.80	
PEAK LOAD MONTH : SUMMER - WINTER [15]	SEP NOV	AUG JAN			JUL DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	50.00	78.00 40.00			63.00 370.00	
AT OUTFALL, SUMMER - WINTER	59.00	97.00 73.00			58.00 50.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		.98			1,533.00	
- WINTER		.68			210.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O [16]		C				
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.55		.01	1.99 .01	14.08 .10	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	135.87		.26 .01	.02 .06	2.80 17.80	
LIME (TONS), COOLING WATER - BOILER MAKEUP	30.55				3.69 1.58	
ALUM (TONS), COOLING WATER - BOILER MAKEUP					69.70 28.16	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	104.50		2.63	1.75	11.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES		YES YES	YES YES	YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [17]	PS	PS	PS	PS	ST	
- RECEIVING WATER BODY					R YAMPA	
POND DISCHARGE? [18] PH, BOILER BLOWDOWN - ASH SETTLING	7.30		11.70		8.80	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	433.00				250.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING	223,000.00					

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [19]: ONCE THROUGH COOLING (FRESH)	5 514.00					
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)			4 16.00			
COOLING TOWER(S)		4 80.05	3 135.00	3 62.50	1 163.20	
COMBINATION [20]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1940 1960	1956 1973	1946 1968	1953 1956	1965	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	9.00 17.00	15.00	14.00 18.80	14.00	19.70	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	876.00	152.00	280.40	122.30	186.70	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	876.00					

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	1,831.00					
COOLING PONDS ($1,000)			19.00			
COOLING TOWERS ($1,000)		184.00	1,333.00		632.00	

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	292.00		.53	4.00	89.60	
COST OF CHEMICAL ADDITIVES ($1,000)	4.00		9.64	2.20	56.90	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	306.00				51.60	
COST OF CHEMICAL ADDITIVES ($1,000)	24.00		.52	.30	14.40	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	COLORADO - UTE E ASSN. INC.	COLUMBIA WTR & LT DEPT	COLUMBUS & S OHIO ELECTRIC CO.	COLUMBUS & S OHIO ELECTRIC CO.	COLUMBUS & S OHIO ELECTRIC CO.	
4	NAME OF PLANT	NUCLA	COLUMBIA	CONESVILLE	PICWAY	POSTON	
5	UTILITY-PLANT CODE	108500-0300	109000-0100	109500-0200	109500-0500	109500-0600	
6	STATE	COLORADO	MISSOURI	OHIO	OHIO	OHIO	
7	COUNTY	MONTROSE	BOONE	COSHOCTON	PICKAWAY	ATHENS	
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	035 14	137 10	103 05	176 05	179 05	
9	PLANT CAPACITY (MW)	34.50	102.00	1,220.50	153.00	232.00	
10	ANNUAL GENERATION (MWH)[3]	178,300	132,700	2,499,200	468,031	1,087,600	
11	PLANT HEAT RATE (BTU/KWH)[3]	13,976	23,192	14,708	13,028	12,666	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	105.20	82.14	1,758.00	286.00	646.00	
13	AVERAGE HEAT CONTENT (BTU/LB)	11,876	11,986	10,455	10,634	10,832	
14	AVERAGE SULFUR CONTENT (%)	.72	1.66	4.91	4.19	3.37	
15	AVERAGE ASH CONTENT (%)	13.02	8.96	10.35	15.11	13.82	
16	AVEPAGE MOISTUPE CONTENT (%)	5.96	8.06	7.48	9.19	9.30	
17	OIL: CONSUMPTION (1,000 BAPRELS)		1.63				
18	AVEPAGE HEAT CONTENT (BTU/GAL)		138,000				
19	AVERAGE SULFUR CONTENT (%)		.29				
20	GAS: CONSUMPTION (1,000 MCF)		1,040.59				
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,050				

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	3	7	4	4	4	
23	- NO. OF WET BOTTOM			2	3		
24	- NO. WITH FLY ASH REINJECTION	3	3				
25	- NO. WITH MECHANICAL PRECIPITATORS	3	6	1	1	4	
26	- NO. WITH ELECTPOSTATIC PRECIPITATORS			1			
27	- NO. WITH COMBINATION PRECIPITATORS[4]						
28	- NO. WITH OESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED I%), LOWEST BOILER - HIGHEST BOILER[5]	26.00	28.00 33.00	11.00 25.00	20.00	20.00 28.00	
30	MECHANICAL PRECIPITATOR FFFICIENCY : OESIGN, LOW - HIGH	86.00 99.40	85.00 92.00	83.00	85.00	85.00	
31	TESTED, LOW - HIGH		88.50 92.00				
32	ESTIMATED, LOW - HIGH	82.00 95.00	85.00 92.00	60.00	50.00	50.00	
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: OESIGN, LOW - HIGH			99.30			
34	TESTED, LOW - HIGH			99.30			
35	EST.,, LOW - HIGH						
36	OESULFURIZATION SYSTEM EFFICIENCY : OESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	2.93	1.03	42.70	22.11	39.12	
40	SULFUR DIOXIDE (1,000 TONS)	1.49	2.67	169.18	23.49	43.99	
41	NITROGEN OXIDES (1,000 TONS)	.79	.81	31.81	3.23	5.99	
42	STACKS: - TOTAL NO.	3	6	3	4	2	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	100.00 42.00	300.00	450.00 800.00	127.50 288.50	200.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	13.70	7.20	277.90	19.60	55.20	
46	SOLD (1,000 TONS)[11]						
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PPECIPITATORS ($1,000)	240.00		287.00	180.00	639.00	
51	ELECTROSTATIC PRECIPITATOPS ($1,000)			2,752.00			
52	COMBINATION PRECIPITATORS ($1,000)[4]						
53	OESULFUPIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	318.00	169.92	3,834.00	165.00	120.00	
55	ASH COLLECTION AND OISPOSAL EXPENSES ($(,000)	24.10		315.00	3.00	104.00	
56	REVENUES FROM SALE OF ASH ($(,000)						
57	SULFUR PRODUCT COLLECTION AND OISPOSAL EXPENSES ($1,000)						
58	PEVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTPOL EXPENSES ($1,000)[13]	24.10		315.00	3.00	104.00	
60	TOTAL BYPRODUCT SALES PEVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R SAN MIGUEL	MW	R MUSKINGUM	R SCIOTO	W	
62	AVEPAGE RATE OF WITHORAWAL (CFS)	61.10		417.10	168.30	5.76	
63	AVERAGE RATE OF OISCHARGE (CFS)	60.80		409.80	168.30	2.05	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.30		7.30	1.45	3.71	
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL OEC		AUG OEC	AUG OEC	AUG OEC	
66	MAX. TEMP. OURING PEAK MONTH (DEG. F.): AT OIVEPSION, SUMMER - WINTER	66.00 38.00		82.00 48.00	80.00 48.00		
67	AT OUTFALL, SUMMER - WINTER	82.00 82.00		91.00 54.00	95.00 65.00		
68	AVE. FLOW IN RECEIVING BODY OURING PEAK MONTH (CFS): SUMMER	861.00		2,053.00	1,930.00		
69	- WINTER	107.00		7,000.00	5,350.00		
70	FREQUENCY OF TEMPEPATURE MONITORING: C, H, O, C[16]			C			
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		1.08	12.23 .15	.19	23.03 .56	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	1.37	1.31	711.97	22.65	.16	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		10.51	756.15	30.73	1,082.32	
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		.42	328.08		150.74	
75	CHLOPINE (TONS), COOLING WATER - BOILEP MAKEUP			66.00	4	34.04	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES YES	YES YES	YES	YES	
77	SEWAGE OISPOSAL: METHOD PS, ST, SW, OT[18]	ST	PS	OT	ST		
78	RECEIVING WATER BODY	R SAN MIGUEL	C BEAR	R MUSKINGUM	R SCIOTO	R HOCKING	
79	POND OISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	8.50	6.50		9.00	8.60	
80	SUSPENOED SOLIOS (PPM), BOILER BLOWDOWN - ASH SETTLING	250.00	250.00 350.00		5.00	5.00	
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN		613.49				
82	- ASH SETTLING		3,344.10	166,000.00	66,000.00	30,500.00	

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)			3 433.50	5 200.75		
84	ONCE THROUGH COOLING (SALINE)						
85	COOLING PONO(S)						
86	COOLING TOWER(S)		6 96.00	1 787.00		4 232.00	
87	COMBINATIONS[21]	3 34.50					
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1959	1937 1967	1957 1973	1926 1955	1949 1954	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	17.30	13.00 20.00	16.00 25.80	10.00 18.00	14.00 16.00	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90.00	228.26	1,100.00	386.00	436.00	
91	TOTAL RATE OF WITHORAWAL, ONCE THPOUGH COOLING SYSTEMS (CFS)	90.00		465.00	386.00		

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	382.00		2,461.00	1,399.00		
93	COOLING PONOS ($1,000)	296.00					
94	COOLING TOWERS ($1,000)		521.36	2,066.00		4,159.00	

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	37.20	218.50	373.20	3.40	237.70	
96	COST OF CHEMICAL ADDITIVES ($1,000)		30.00	45.50		59.70	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	5.60	154.81	138.80	55.20	107.70	
98	COST OF CHEMICAL ADDITIVES ($1,000)	4.20	16.94	86.70	6.10	3.70	

99 ALL FOOTNOTES APE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	COLUMBUS, CITY OF	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.		
NAME OF PLANT	COLUMBUS	STATE LINE	FISK	CALUMET	CRAWFORD		
UTILITY-PLANT CODE	110000-0100	111000-0100	111500-0100	111500-0200	111500-0300		
STATE	OHIO	INDIANA	ILLINOIS	ILLINOIS	ILLINOIS		
COUNTY	FRANKLIN	LAKE	COOK	COOK	COOK		
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	176 05	067 04	067 04	067 04	067 04		
PLANT CAPACITY (MW)	52.50	972.00	547.00	107.00	702.00		
ANNUAL GENERATION (MWH) 3/	78,750	5,029,000	1,942,900	295,100	2,762,500		
PLANT HEAT RATE (BTU/KWH) 3/	17,878	10,573	11,302	13,224	10,292		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	22.32	2,681.00	1,135.00		1,414.00		
AVERAGE HEAT CONTENT (BTU/LB)	11,580	9,730	9,261		9,239		
AVERAGE SULFUR CONTENT (%)	1.27	1.53	.40		.42		
AVERAGE ASH CONTENT (%)	15.80	11.00	4.61		4.98		
AVERAGE MOISTURE CONTENT (%)	7.50	16.99	25.50		25.19		
OIL: CONSUMPTION (1,000 BARRELS)	11.06						
AVERAGE HEAT CONTENT (BTU/GAL)	138,713						
AVERAGE SULFUR CONTENT (%)	.18						
GAS: CONSUMPTION (1,000 MCF)	810.28	111.20	914.80	3,794.70	3,263.30		
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,020	1,025	1,026	1,028	1,028		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	4	11	5	2	8		
- NO. OF WET BOTTOM		7	4	2			
- NO. WITH FLY ASH REINJECTION	1		2				
- NO. WITH MECHANICAL PRECIPITATORS	1						
- NO. WITH ELECTROSTATIC PRECIPITATORS		11	5	2	2		
- NO. WITH COMBINATION PRECIPITATORS 4/							
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%, LOWEST BOILER - HIGHEST BOILER 5/	10.00 31.00	16.00 25.00	18.00 22.00	20.00	10.00 15.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	92.30						
TESTED, LOW - HIGH	92.30						
ESTIMATED, LOW - HIGH							
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH		96.00 98.00	98.00 98.50	95.00	98.00 99.00		
TESTED, LOW - HIGH		96.70 98.70	90.90		95.80 97.50		
EST., LOW - HIGH		92.00 98.00	98.00		98.00		
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	1.37	4.00	.73		1.20		
SULFUR DIOXIDE (1,000 TONS)	354.47	80.40	8.90		11.64		
NITROGEN OXIDES (1,000 TONS)	.33	51.89	14.63	.74	13.36		
STACKS: - TOTAL NO.	4	6	5	2	5		
- HEIGHT (FEET), LOWEST - HIGHEST 8/	51.00 110.00	301.00 450.00	292.00 450.00	300.00	185.00 378.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/							
TOTAL ASH: COLLECTED (1,000 TONS) 10/	3.53	313.60	67.20		58.30		
SOLD (1,000 TONS) 11/							
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							
ELECTROSTATIC PRECIPITATORS ($1,000)		7,883.95	3,714.00	502.00	2,100.00		
COMBINATION PRECIPITATORS ($1,000) 4/							
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)		731.00	487.00	82.00	716.00		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	7.50	890.00	642.00		658.00		
REVENUES FROM SALE OF ASH ($1,000)							
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)		43.00					
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	7.50	933.00	642.00		658.00		
TOTAL BYPRODUCT SALES REVENUES ($1,000)							

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R SCIOTO	L MICHIGAN	O CHICAGO CANAL	R CALUMET	O CHICAGO CANAL		
AVERAGE RATE OF WITHDRAWAL (CFS)	24.00	1,259.00	401.00	67.00	593.00		
AVERAGE RATE OF DISCHARGE (CFS)	24.00	1,259.00	401.00	67.00	593.00		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	.21	10.83	3.45	.58	5.10		
PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG DEC	AUG JAN	AUG JAN	AUG JAN	AUG JAN		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	86.00 56.00	75.00 52.00	80.00 46.00	89.00 53.00	85.00 44.00		
AT OUTFALL, SUMMER - WINTER	94.00 64.00	81.00 59.00	85.00 52.00	98.00 65.00	90.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	24.00		650.00		650.00		
- WINTER	24.00		770.00		770.00		
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D 16/	H	C	C	H			
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.40	2.00	.77	.18	.29		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	1.30	67.59	62.11	7.49	56.42		
LIME (TONS), COOLING WATER - BOILER MAKEUP		7.88	2.52	.55	2.20		
ALUM (TONS), COOLING WATER - BOILER MAKEUP							
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	1.70	73.73	181.34	7.56	161.67		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	PS	PS	PS	PS	PS		
RECEIVING WATER BODY							
POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING		9.80 7.30	10.50 7.80	10.80 7.80	9.40 7.70		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		3.00 80.00	3.00 8.00	3.00 20.00	3.00 50.00		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN		203.00	314.00	58.00	504.00		
- ASH SETTLING		87,894.00	36,267.00	13,800.00	10,400.00		

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	5 45.00	4 972.00	3 572.00	1 107.00	3 701.00		
ONCE THROUGH COOLING (SALINE)							
COOLING POND(S)							
COOLING TOWER(S)							
COMBINATION 21/							
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1918 1955	1929 1962	1914 1959	1947	1928 1961		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	8.30	8.50 12.20	10.60 13.90	11.10	8.20 13.50		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	24.00	1,850.00	931.00	245.00	1,255.00		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	24.00	1,850.00	931.00	534.00	1,255.00		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)		2,252.00	3,538.00	722.00	2,650.00		
COOLING PONDS ($1,000)							
COOLING TOWERS ($1,000)							

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		80.00	57.00	17.00	143.00		
COST OF CHEMICAL ADDITIVES ($1,000)	1.22	9.00	24.00		35.00		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		272.00	173.00	67.00	114.00		
COST OF CHEMICAL ADDITIVES ($1,000)	4.38	13.00	21.00	1.00	20.00		

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	
2							
3							
4	NAME OF PLANT	DIXON	GRESOEN	JOLIET	KINCAID	POWERTON	
5	UTILITY-PLANT CODE	111500-0400	111500-0500	111500-1000	111500-1100	111500-1300	
6	STATE	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS	
7	COUNTY	LEE	GRUNDY	WILL	CHRISTIAN	TAZEWELL	
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	071 07	063 07	063 07	021 07	095 07	
9	PLANT CAPACITY (MW)	119.00	1,865.00	1,787.00	1,319.00	1,213.00	
10	ANNUAL GENERATION (MWH) [3]	651,160	9,234,000	8,146,000	4,902,600	4,015,200	
11	PLANT HEAT RATE (BTU/KWH) [4]	11,786	11,338	10,225	10,523	10,627	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	336.00		4,058.00	2,648.00	2,251.00	
13	AVERAGE HEAT CONTENT (BTU/LB)	10,539		10,033	9,718	10,699	
14	AVERAGE SULFUR CONTENT (%)	2.89		2.89	3.99	3.63	
15	AVERAGE ASH CONTENT (%)	10.94		13.39	15.16	8.44	
16	AVERAGE MOISTURE CONTENT (%)	15.20		14.59	15.49	15.67	
17	OIL: CONSUMPTION (1,000 BARRELS)					10.80	
18	AVERAGE HEAT CONTENT (BTU/GAL)					137,763	
19	AVERAGE SULFUR CONTENT (%)					.50	
20	GAS: CONSUMPTION (1,000 MCF)	575.10		4,339.70	88.90	97.00	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,031		1,031	986	1,000	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2		9	2	14	
23	- NO. OF WET BOTTOM	2		5	2	11	
24	- NO. WITH FLY ASH REINJECTION				2		
25	- NO. WITH MECHANICAL PRECIPITATORS						
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	2		7	2	2	
27	- NO. WITH COMBINATION PRECIPITATORS [5]						
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [6]						
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	20.00 25.00		10.00 25.00	16.00	19.00 28.00	
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH						
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [7]: DESIGN, LOW - HIGH	92.00 95.00		98.00 99.00	98.00	99.50	
34	TESTED, LOW - HIGH	73.40 95.80		97.50	94.30		
35	ESI., LOW - HIGH	93.00 96.00		98.00 99.00	98.00	99.50	
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	1.28		3.69	.89	12.65	
40	SULFUR DIOXIDE (1,000 TONS)	19.03		229.86	207.08	160.17	
41	NITROGEN OXIDES (1,000 TONS)	5.15		57.09	72.84	59.03	
42	STACKS: - TOTAL NO.	2		6	2	4	
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	221.00 246.00		248.00 550.00	500.00	311.00 500.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	41.90		538.00	400.00	170.10	
46	SOLD (1,000 TONS) [11]						
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
51	ELECTROSTATIC PRECIPITATORS ($1,000)	428.00		7,854.00	4,342.00	3,700.00	
52	COMBINATION PRECIPITATORS ($1,000) [4]						
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	98.00		1,387.00	950.00	4,692.00	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	135.00		1,410.00	1,809.00	510.00	
56	REVENUES FROM SALE OF ASH ($1,000)						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	135.00		1,410.00	1,809.00	510.00	
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R ROCK	R ILLINOIS	R DES PLAINES	D LOCAL RUNOFF	R ILLINOIS	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	148.00	1,340.00	1,920.00	492.00	495.00	
63	AVERAGE RATE OF DISCHARGE (CFS)	148.00	1,317.00	1,920.00	492.00	490.00	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	1.27	23.00	16.51		5.00	
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG JAN	AUG JAN	AUG JAN	AUG JAN	AUG JAN	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	85.00 51.00	82.00 36.00	86.00 52.00	84.60 44.00	84.00 45.00	
67	AT OUTFALL, SUMMER - WINTER	100.00 81.00	86.00 52.00	86.00 62.00	104.00 62.00	107.00 70.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	1,001.00	2,134.00	12,269.00			
69	- WINTER	11,043.00	20,610.00	8,678.00			
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, ON [16]	H	C	C	H		
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.80	5.75	3.27		1.22	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	5.08	134.59	299.24	281.95	269.58	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	20.45			205.52		
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	1.39					
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	17.71	179.75	796.81	40.63	80.62	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	PS	OT	OT	OT	OT	
78	RECEIVING WATER BODY		R ILLINOIS	R DES PLAINES	L KINCAID	R ILLINOIS	
79	POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	10.80 8.10		10.30 7.80	7.90	10.80 8.80	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	9.00 2.40		3.00 20.00	1.50	3.00 24.00	
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	2,500.00		30,000.00	817,000.00	29.00 100,000.00	
82		9,500.00					

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	2 119.00	1 209.00	8 1,862.00		4 320.00	
84	ONCE THROUGH COOLING (SALINE)						
85	COOLING PONDS)				2 1,320.00	1 840.00	
86	COOLING TOWER(S)						
87	COMBINATION [21]		2 1,620.00				
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1943 1953	1960 1971	1917 1966	1967 1968	1928 1971	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	11.60 14.70	18.20 22.80	6.00 10.00	22.50	7.00 25.20	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	237.00	2,608.00	3,301.00	1,070.00	1,859.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	237.00	2,654.00	3,145.00	1,070.00	1,090.00	

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	571.00	11,623.00	5,805.00	2,675.00	2,313.00	
93	COOLING PONDS ($1,000)		25,000.00		3,819.00	10,771.00	
94	COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	56.00	167.00	337.00	51.00	74.00	
96	COST OF CHEMICAL ADDITIVES ($1,000)	6.00	40.00	63.00	8.00	17.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	76.00	709.00	267.00	153.00	204.00	
98	COST OF CHEMICAL ADDITIVES ($1,000)	5.00	156.00	69.00	96.00	57.00	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	
NAME OF PLANT	OUAD CITIES	RIDGELAND	SABROOKE	WAUKEGAN	WILL COUNTY	
UTILITY-PLANT CODE	111500-1350	111500-1400	111500-1500	111500-1600	111500-1700	
STATE	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS	
COUNTY	ROCK ISLAND	COOK	WINNEBAGO	LAKE	WILL	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	069 07	067 07	073 07	067 04	067 07	
PLANT CAPACITY (MW)	1,657.00	690.00	146.00	933.00	1,269.00	
ANNUAL GENERATION (MWH)[3]	10,118,800	2,825,800	427,800	4,194,400	4,940,300	
PLANT HEAT RATE (BTU/KWH)[3]	10,688	11,177	12,768	10,195	10,488	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)			166.00	2,121.00	2,745.00	
AVERAGE HEAT CONTENT (BTU/LB)			10,722	10,045	9,377	
AVERAGE SULFUR CONTENT (%)			.92	1.21	1.58	
AVERAGE ASH CONTENT (%)			15.90	9.40	8.35	
AVERAGE MOISTURE CONTENT (%)			9.61	16.06	22.31	
OIL: CONSUMPTION (1,000 BARRELS)		5,040.20		21.20	52.90	
AVERAGE HEAT CONTENT (BTU/GAL)		149,105		137,836	138,262	
AVERAGE SULFUR CONTENT (%)		.90		.50	.50	
GAS: CONSUMPTION (1,000 MCF)		18.90	1,471.60			
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,031	1,032			

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.		6	4	9	4	
- NO. OF WET BOTTOM		6		6	2	
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS			3			
- NO. WITH ELECTROSTATIC PRECIPITATORS		6	1	9	4	
- NO. WITH COMBINATION PRECIPITATORS[4]					1	
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]		10.00 18.00	22.00 27.00	18.00 25.00	10.00 20.00	
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH			92.00			
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH			80.00			
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH		90.00 98.00	98.00	95.00 98.00	90.00 99.00	
TESTED, LOW - HIGH			93.90	65.10 93.30	98.00	
EST., LOW - HIGH		90.00 98.00		96.00 98.00	91.00 98.00	
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH					76.00	
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)		.05	2.56	3.27	3.36	
SULFUR DIOXIDE (1,000 TONS)		15.22	2.99	50.34	85.10	
NITROGEN OXIDES (1,000 TONS)		11.12	1.64	25.95	39.57	
STACKS: - TOTAL NO.		6	2	4	4	
- HEIGHT (FEET), LOWEST - HIGHEST[8]		213.00	148.00	330.00 450.00	349.00 500.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]					13.00	
TOTAL ASH: COLLECTED (1,000 TONS)[10]		.60	25.80	199.70	218.20	
SOLD (1,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			98.00			
ELECTROSTATIC PRECIPITATORS ($1,000)		1,591.00	179.00	6,369.00	12,454.00	
COMBINATION PRECIPITATORS ($1,000)[4]					15,000.00	
DESULFURIZATION SYSTEMS ($1,000)		860.00	106.00	893.00	1,060.00	
STACKS ($1,000)		73.00	138.00	841.00	1,511.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)					429.00	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		73.00	138.00	841.00	1,940.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MISSISSIPPI	O CHICAGO CANAL	R ROCK	L MICHIGAN	O CHICAGO CANAL	
AVERAGE RATE OF WITHDRAWAL (CFS)	1,333.00	742.00	94.00	962.00	1,049.00	
AVERAGE RATE OF DISCHARGE (CFS)	1,333.00	742.00	94.00	962.00	1,049.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	11.46	6.38	.81	8.27	9.02	
PEAK LOAD MONTH: SUMMER - WINTER[15]	AUG JAN	AUG JAN	AUG JAN	AUG JAN	AUG JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	78.00 34.00	79.00 46.00	83.00 38.00	69.00 39.00	84.00 54.00	
AT OUTFALL, SUMMER - WINTER	105.00 61.00	89.00 57.00	103.00 78.00	77.00 44.00	94.00 64.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	38,130.00	2,010.00	3,164.00		2,692.00	
- WINTER	54,100.00	1,970.00	8,764.00		3,113.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]	C	C	M		C	
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.09	.87	.37	5.13	1.23	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	14.43	75.52	75.82	74.27	128.68	
LIME (TONS), COOLING WATER - BOILER MAKEUP				14.11		
ALUM (TONS), COOLING WATER - BOILER MAKEUP					109.64	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	1,272.66	234.75	.81	56.64	444.02	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	OT	PS	PS	PS	OT	
RECEIVING WATER BODY	R MISSISSIPPI				R DES PLAINES	
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING		10.40 7.40	11.00 4.00	10.20 7.70	9.70 7.70	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		3.00 45.00	3.00	3.00 25.00	3.00 40.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN		321.00	34.00	1,833.00	800.00	
- ASH SETTLING		525,500.00	15,000.00	244,000.00	18,484.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	2 1,618.00	4 692.00	4 147.00	7 1,042.00	4 1,269.00	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)						
COOLING TOWER(S)						
COMBINATION[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1972	1950 1955	1949 1961	1923 1962	1955 1963	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	24.00	8.30 11.70	20.20	10.50 15.20	8.90 12.10	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	2,100.00	1,336.00	213.00	1,948.00	2,000.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	2,270.00	1,336.00	280.00	1,948.00	2,000.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	8,998.00	4,401.00	1,106.00	4,859.00	5,126.00
COOLING PONDS ($1,000)					
COOLING TOWERS ($1,000)					

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	100.00	196.00	16.00	123.00	180.00
COST OF CHEMICAL ADDITIVES ($1,000)	42.00	54.00		14.00	89.00

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	559.00	203.00	145.00	139.00	195.00
COST OF CHEMICAL ADDITIVES ($1,000)	228.00	13.00	13.00	25.00	26.00

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	COMMONWEALTH EDISON CO.	COMMUNITY PUBLIC SERVICE COMPANY	CONN YANKEE ATOMIC PWR CO.	CONSOLIDATED EDISON CO. OF NY	CONSOLIDATED EDISON CO. OF NY	1
2							2
3							3
4	NAME OF PLANT	ZION	LORDSBURG	HADDAM	59TH STREET	74TH STREET	4
5	UTILITY-PLANT CODE	111500-1800	112000-0400	112500-0100	113000-0100	113000-0200	5
6	STATE	ILLINOIS	NEW MEXICO	CONNECTICUT	NEW YORK	NEW YORK	6
7	COUNTY	LAKE	HIDALGO	MIDDLESEX	NEW YORK	NEW YORK	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	067 07	012 15	042 01	043 02	043 02	8
9	PLANT CAPACITY (MW)	1,098.00	41.50	600.30	184.50	209.00	9
10	ANNUAL GENERATION (MWH)[3]	697,900	229,800	2,425,000	577,138	412,483	10
11	PLANT HEAT RATE (BTU/KWH)[3]	13,269	13,147	10,877	15,990	17,866	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)						12
13	AVERAGE HEAT CONTENT (BTU/LB)						13
14	AVERAGE SULFUR CONTENT (%)						14
15	AVERAGE ASH CONTENT (%)						15
16	AVERAGE MOISTURE CONTENT (%)						16
17	OIL: CONSUMPTION (1,000 BARRELS)				1,525.20	1,216.10	17
18	AVERAGE HEAT CONTENT (BTU/GAL)				143,794	144,198	18
19	AVERAGE SULFUR CONTENT (%)				.32	.30	19
20	GAS: CONSUMPTION (1,000 MCF)		2,821.08		16.90		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,070		1,028		21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.		3		6	3	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS						26
27	- NO. WITH COMBINATION PRECIPITATORS[4]						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]						29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		10.00 12.00		7.00 15.00	25.00	30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH						33
34	TESTED, LOW - HIGH						34
35	EST., LOW - HIGH						35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)				.26	.20	39
40	SULFUR DIOXIDE (1,000 TONS)				1.64	1.22	40
41	NITROGEN OXIDES (1,000 TONS)		.55		3.37	2.68	41
42	STACKS: - TOTAL NO.		3		3	1	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]		55.00 100.00		245.85 528.35	518.90	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]						45
46	SOLD (1,000 TONS)[11]						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)						51
52	COMBINATION PRECIPITATORS ($1,000)[4]						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)		44.80		1,297.00	1,188.40	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						55
56	REVENUES FROM SALE OF ASH ($1,000)						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]						59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L MICHIGAN	W	R CONNECTICUT	R HUDSON	R EAST	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)		1.20	883.00	192.00	164.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)			883.00	192.00	164.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]		1.02	7.59	1.65	1.41	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG JAN	JUL DEC	SEP FEB	AUG JAN	AUG JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	69.00		72.00 35.00	83.00 45.00	76.20 40.00	66
67	AT OUTFALL, SUMMER - WINTER	82.00		105.00 67.00	103.00 66.00	82.00 47.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			6,000.00			68
69	- WINTER			10,100.00			69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]	C	O				70
71	CHEMICAL ADDITIVES: RHOSRMATE (TONS), COOLING WATER - BOILER MAKEUP	1.35		1.46	25.55	3.30	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	18.50			243.84	1,055.00	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP				25.75		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES YES	YES YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD RS, ST, SW, OT[18]		PS	ST			77
78	RECEIVING WATER BODY						78
79	POND DISCHARGE[19]: RM, BOILER BLOWDOWN - ASH SETTLING						79
80	SUSPENDED SOLIDS (RM), BOILER BLOWDOWN - ASH SETTLING						80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING						82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	1 1,085.00		1 600.00			83
84	ONCE THROUGH COOLING (SALINE)				5 187.00	5 269.00	84
85	COOLING PONDS(S)						85
86	COOLING TOWER(S)		3 38.50				86
87	COMBINATION[21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1973	1963 1967	1965	1918 1968	1915 1962	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	20.60	21.00 23.10	22.00	7.00	7.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,618.00	79.03	830.00	589.00	760.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,618.00		870.00	589.00		91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	20,900.00		1.56	860.20	972.32	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)		236.74				94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	7.00	2.70	11.00	179.00	46.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)		4.90	3.40	11.00	10.00	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	32.00	2.90	8.30	251.00	159.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	7.00	7.30	.20	153.00	261.00	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	CONSOLIDATED EDISON CO. OF NY	CONSOLIDATED EDISON CO. OF NY	CONSOLIDATED EDISON CO. OF NY	CONSOLIDATED EDISON CO. OF NY	CONSOLIDATED EDISON CO. OF NY	
NAME OF PLANT	ARTHUR KILL	ASTORIA	EAST RIVER	HELL GATE	HUDSON AVENUE	
UTILITY-PLANT CODE	113000-0300	113000-0400	113000-0500	113000-0600	113000-0700	
STATE	NEW YORK	NEW YORK	NEW YORK	NEW YORK	NEW YORK	
COUNTY	NEW YORK	QUEENS	NEW YORK	BRONX	KINGS	
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	043 02	043 02	043 02	043 02	043 02	
PLANT CAPACITY (MW)	911.70	1,540.00	776.00	311.00	715.00	
ANNUAL GENERATION (MWH) 3/	3,251,200	7,027,400	1,798,700	215,800	1,284,600	
PLANT HEAT RATE (BTU/KWH) 3/	10,349	10,469	12,524	25,349	19,422	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT (%)						
OIL: CONSUMPTION (1,000 BARRELS)	6,010.80	10,879.50	2,047.50	898.90	4,121.10	
AVERAGE HEAT CONTENT (BTU/GAL)	143,926	144,142	143,796	143,859	143,822	
AVERAGE SULFUR CONTENT (%)	.31	.31	.28	.31	.28	
GAS: CONSUMPTION (1,000 MCF)		7,989.60	9,884.50	38.05	.43	
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,028	1,028	1,029	1,028	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	5	12	19	24	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS	1					
- NO. WITH COMBINATION PRECIPITATORS 4/	1	5	1			
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	25.00	25.00	20.00	27.00	30.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	99.50	99.00	97.00			
TESTED, LOW - HIGH						
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.01	.03	.18	.15	.69	
SULFUR DIOXIDE (1,000 TONS)	6.25	11.32	1.92	.93	3.87	
NITROGEN OXIDES (1,000 TONS)	13.25	25.55	6.44	1.99	9.17	
STACKS: - TOTAL NO.	1	8	4	5	4	
- HEIGHT (FEET), LOWEST - HIGHEST 8/	518.25	315.00	378.00	294.25	387.20	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						
TOTAL ASH: COLLECTED (1,000 TONS) 10/						
SOLD (1,000 TONS) 11/						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	1,996.00					
ELECTROSTATIC PRECIPITATORS ($1,000)	2,277.00	8,212.00	1,170.00			
COMBINATION PRECIPITATORS ($1,000) 4/						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	808.50	1,315.20	648.90	172.00	255.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/			14.00			
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	B LOWER NY	R EAST	R EAST	R EAST	R EAST	
AVERAGE RATE OF WITHDRAWAL (CFS)	924.00	1,646.00	611.00	190.00	810.00	
AVERAGE RATE OF DISCHARGE (CFS)	924.00	1,646.00	611.00	190.00	810.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	7.92		2.52	1.61	6.97	
PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG JAN	AUG JAN	AUG JAN	AUG JAN	AUG JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	84.10 47.50	49.00	75.30 40.60	38.00	79.00 43.00	
AT OUTFALL, SUMMER - WINTER	121.20 63.50	63.00	98.60 48.50	53.00	94.00 56.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						
- WINTER						
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O 16/						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.62	2.43	18.00		120.72	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	28.10	70.54	588.50		340.45	
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	146.30		218.00		421.70	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES	YES		YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/						
RECEIVING BODY WATER						
POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING						
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)						
ONCE THROUGH COOLING (SALINE)	2 850.00	5 1,560.00	6 777.00	6 513.00	7 715.00	
COOLING PONDS(S)						
COOLING TOWER(S)						
COMBINATION 21/						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST - NEWEST SYSTEM	1939 1969	1928 1962	1927 1962	1921 1946	1926 1951	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	13.00	13.00	15.00	12.00	12.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,010.00	2,718.00	1,590.00	1,160.00	1,884.32	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,010.00	2,108.00	1,390.00	993.00	2,330.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	2,676.03	4,618.59	6,243.69	803.73	1,533.47	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	140.00	363.00	1.12		129.00	
COST OF CHEMICAL ADDITIVES ($1,000)	5.00	54.00	8.00		23.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	82.00	207.00	157.00		386.00	
COST OF CHEMICAL ADDITIVES ($1,000)	5.00	23.00	70.00		58.00	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	CONSOLIDATED EDISON CO. OF NY	CONSOLIDATED EDISON CO. OF NY	CONSOLIDATED EDISON CO. OF NY	CONSUMERS POWER CO.	CONSUMERS POWER CO.
4	NAME OF PLANT	INDIAN POINT	RAVENSWOOD	WATERSIDE	COBB	MORROW
5	UTILITY-PLANT CODE	113000-0800	113000-1000	113000-1200	114500-0400	114500-0500
6	STATE	NEW YORK	NEW YORK	NEW YORK	MICHIGAN	MICHIGAN
7	COUNTY	WESTCHESTER	QUEENS	NEW YORK	MUSKEGON	KALAMAZOO
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	043 02	043 02	043 02	122 04	125 04
9	PLANT CAPACITY (MW)	1,288.00	1,627.00	672.00	510.50	186.00
10	ANNUAL GENERATION (MWH)[3]	248,200	8,011,200	1,438,700	3,449,800	659,500
11	PLANT HEAT RATE (BTU/KWH)[3]	15,023	9,902	15,971	10,590	13,244

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (T,000 TONS)				1,589.00		12
13	AVERAGE HEAT CONTENT (BTU/LB)				11,462		13
14	AVERAGE SULFUR CONTENT (%)				3.27		14
15	AVERAGE ASH CONTENT (%)				11.34		15
16	AVERAGE MOISTURE CONTENT (%)				10.41		16
17	OIL: CONSUMPTION (1,000 BARRELS)		12,391.50	2,036.00	18.40	1,404.25	17
18	AVERAGE HEAT CONTENT (BTU/GAL)		143,987	143,748	138,000	145,000	18
19	AVERAGE SULFUR CONTENT (%)		.28	.28	.50	1.00	19
20	GAS: CONSUMPTION (T,000 MCF)		4,262.10	10,392.70		.70	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,028	1,028		1,021	21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2	4	10	5	4		22
23	- NO. OF WET BOTTOM							23
24	- NO. WITH FLY ASH REINJECTION							24
25	- NO. WITH MECHANICAL PRECIPITATORS							25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS					4		26
27	- NO. WITH COMBINATION PRECIPITATORS[4]				5			27
28	- NO. WITH DESULFURIZATION SYSTEMS		2					28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]							29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	20.00	10.00 25.00	20.00	15.00 18.00	20.00		30
31	TESTED, LOW - HIGH					80.00 81.00		31
32	ESTIMATED, LOW - HIGH							32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH					80.00 81.00		33
34	TESTED, LOW - HIGH		99.00		99.00			34
35	EST., LOW - HIGH				95.20 98.60			35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH				97.00 99.00			36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)		1.03	.34	3.33	.05		39
40	SULFUR DIOXIDE (1,000 TONS)		11.64	1.91	101.87	4.71		40
41	NITROGEN OXIDES (1,000 TONS)		28.15	6.52	14.34	3.10		41
42	STACKS: - TOTAL NO.	1	3	3	5	2		42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	334.00	515.00	479.00	250.00 300.00	262.50		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]							44
45	TOTAL ASH: COLLECTED (T,000 TONS)[10]				180.00			45
46	SOLD (1,000 TONS)[11]				32.80			46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							50
51	ELECTROSTATIC PRECIPITATORS ($1,000)					100.60		51
52	COMBINATION PRECIPITATORS ($1,000)[4]				3,640.00			52
53	DESULFURIZATION SYSTEMS ($1,000)		10,300.00					53
54	STACKS ($1,000)	665.10	1,516.70	598.40	276.00	100.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		296.30		348.70			55
56	REVENUES FROM SALE OF ASH ($1,000)				24.30			56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		301.30		352.60			59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)				24.30			60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R HUDSON	R EAST	R EAST	L MUSKEGON	R KALAMAZOO		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	696.00	1,555.00	441.00	619.00	152.00		62
63	AVERAGE RATE OF DISCHARGE (CFS)	696.00	1,555.00	441.00	619.00	152.00		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]		13.37	3.79	5.32	1.31		64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG JAN	AUG JAN	AUG JAN	AUG JAN	AUG JAN		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	82.00	78.70 44.90	77.00 40.00	84.00 41.00	81.00 39.00		66
67	AT OUTFALL, SUMMER - WINTER	93.00	95.90 59.20	79.00 60.00	97.00 58.00	95.00 62.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER				846.00	190.00		68
69	- WINTER				390.00	140.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]							70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		3.04	39.15	.40	1.75		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		179.96	1,915.79	141.75	6.20		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP				20.95	13.88		73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP							74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		1,455.00	237.00	17.05	14.85		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP		YES	YES	YES	YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST			ST	ST		77
78	RECEIVING WATER BODY					R KALAMAZOO		78
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING				10.50 7.70	10.50		79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				10.00 3.00	15.00		80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							81
82	- ASH SETTLING				35,133.69			82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)				5 510.50	4 186.00		83
84	ONCE THROUGH COOLING (SALINE)	1 275.00	3 1,720.00	12 673.00				84
85	COOLING POND(S)							85
86	COOLING TOWER(S)							86
87	COMBINATION[21]							87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1962	1963 1965	1919 1949	1948 1957	1939 1949		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	14.00	15.00	10.00	11.68 16.50	15.00 16.50		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	695.00	2,149.00	821.20	903.00	404.00		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	695.00	2,149.00		903.00	405.00		91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)							92
93	COOLING PONDS ($1,000)	668.15	9,121.50	1,317.69				93
94	COOLING TOWERS ($1,000)							94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)							95
96	COST OF CHEMICAL ADDITIVES ($1,000)		505.00	289.00	26.20	53.70		96
			110.00	10.00	5.00	4.40		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)							97
98	COST OF CHEMICAL ADDITIVES ($1,000)		183.00	244.00	29.90	23.00		98
			30.00	401.00	16.80	12.70		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1 NAME OF UTILITY	CONSUMERS POWER CO.	CONSUMERS POWER CO.	CONSUMERS POWER CO.	CONSUMERS POWER CO.	CONSUMERS POWER CO.	
4 NAME OF PLANT	BIG ROCK POINT	KARN	ELN STREET	CANPBELL	PALISAOES	
5 UTILITY-PLANT CODE	114500-0600	114500-1200	114500-1300	114500-1900	114500-2250	
6 STATE	MICHIGAN	MICHIGAN	MICHIGAN	MICHIGAN	MICHIGAN	
7 COUNTY	CHARLEVOIS	BAY	CALHOUN	OTTAWA	VAN BUREN	
8 AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	126 04	122 04	125 04	122 04	082 04	
9 PLANT CAPACITY (MW)	75.00	550.00	30.00	650.00	720.00	
10 ANNUAL GENERATION (NWH)[3]	422,700	3,438,200	62,188	4,103,700	2,411,300	
11 PLANT HEAT RATE (BTU/KWH)[3]	11,421	9,136	16,427	9,097	10,981	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)		1,402.00	39.20	1,664.00		
13 AVERAGE HEAT CONTENT (BTU/LB)		11,138	12,981	11,187		
14 AVERAGE SULFUR CONTENT (%)		3.21	1.00	3.61		
15 AVERAGE ASH CONTENT (%)		14.55	7.00	16.12		
16 AVERAGE NOISTURE CONTENT I%)		8.63	6.34	7.48		
17 OIL: CONSUMPTION (1,000 BARRELS)		21.20	.70	14.00		
18 AVERAGE HEAT CONTENT (BTU/GAL)		138,000	138,000	138,000		
19 AVERAGE SULFUR CONTENT I%)		.50	.50	.50		
20 GAS: CONSUMPTION (1,000 MCF)						
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)						

PLANT EQUIPMENT DATA

22 BOILERS: - TOTAL NO.		2	1	2		
23 - NO. OF WET BOTTON						
24 - NO. WITH FLY ASH REINJECTION						
25 - NO. WITH NECHANICAL PRECIPITATORS			1			
26 - NO. WITH ELECTROSTATIC PRECIPITATORS		2		2		
27 - NO. WITH CONBINATION PRECIPITATORS[4]						
28 - NO. WITH OESULFURIZATION SYSTENS						
29 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]		17.00	4.50	18.00		
30 NECHANICAL PRECIPITATOR EFFICIENCY : OESIGN, LOW - HIGH			80.00			
31 TESTEO, LOW - HIGH						
32 ESTINATEO, LOW - HIGH			80.00			
33 ELECTROSTATIC/CONBINATION PRECIPITATOR EFFICIENCY[6]: OESIGN, LOW - HIGH		95.00		95.00 98.00		
34 TESTEO, LOW - HIGH		88.00		89.90 95.50		
35 EST., LOW - HIGH		88.00		88.00 95.00		
36 OESULFURIZATION SYSTEN EFFICIENCY : OESIGN, LOW - HIGH						
37 TESTEO, LOW - HIGH						
38 ESTINATEO, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)		33.88	.47	17.82		
40 SULFUR OIOXIOE II,000 TONS)		88.24	.77	117.76		
41 NITROGEN OXIOES II,000 TONS)		12.66	.35	15.01		
42 STACKS: - TOTAL NO.		2	1	1		
43 - HEIGHT (FEET), LOWEST - HIGHEST[8]		350.00	255.50	405.00		
44 CONBUSTION CYCLE AOOITIVES I1,000 TONS)[9]						
45 TOTAL ASH: COLLECTEO I1,000 TONS)[10]		204.00	2.70	268.00		
46 SOLO I1,000 TONS)[11]		68.90		30.80		
47 TOTAL SULFUR: ELEMENTAL COLLECTEO I1,000 TONS)						
48 EQUIVALENT OF AC1O COLLECTEO (1,000 TONS)[12]						
49 ELEMENTAL AN0 EQUIVALENT OF AC1O SOLO I1,000 TONS)						
50 INSTALLEO COSTS: NECHANICAL PRECIPITATORS ($1,000)			19.00			
51 ELECTROSTATIC PRECIPITATORS I$1,000)		1,014.00		970.60		
52 CONBINATION PRECIPITATORS I$1,000)[4]						
53 OESULFURIZATION SYSTENS ($1,000)						
54 STACKS ($1,000)		522.00	25.00	312.00		
55 ASH COLLECTION AND OISPOSAL EXPENSES ($1,000)		142.00	4.80	211.90		
56 REVENUES FROM SALE OF ASH ($1,000)		23.20		13.60		
57 SULFUR PRODUCT COLLECTION AND OISPOSAL EXPENSES I$1,000I						
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000I						
59 TOTAL AIR QUALITY CONTROL EXPENSES I$1,000I[13]		146.10	4.80	220.80		
60 TOTAL BYPROOUCT SALES REVENUES I$1,000)		23.20		13.60		

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L NICHIGAN	R SAGINAW	R BATTLE CREEK	L PIGEON	L NICHIGAN	
62 AVERAGE RATE OF WITHORAWAL ICFS)	113.86	454.00	65.00	504.00	900.00	
63 AVERAGE RATE OF OISCHARGE ICFS)	113.86	454.00	65.00	504.00	900.00	
64 AVE. RATE OF CONSUNPTION ICFS), CALCULATED - REPORTED[14]						
65 PEAK LOAO NONTH : SUMMER - WINTER[15]	.98 AUG	JAN	.58 AUG	JAN	4.33 AUG	7.74 AUG JAN
66 NAX. TENP. OURING PEAK NONTH (OEG. F.): AT OIVERSION, SUMMER - WINTER	74.00	41.00	81.00	35.00	76.00	44.00 74.00 35.00
67 AT OUTFALL, SUMMER - WINTER	93.00	57.00	83.00	54.00	89.00	68.00 83.00 60.00
68 AVE. FLOW IN RECEIVING BOOY OURING PEAK NONTH ICFS): SUMMER						
69 - WINTER		320.00		334.00		
70 FREQUENCY OF TENPERATURE NONITORING: C, H, O, O[16]					C	
71 CHENICAL AOOITIVES: PHOSPHATE ITONS), COOLING WATER - BOILER NAKEUP		.69	.37			6.00
72 CAUSTIC SOOA ITONS), COOLING WATER - BOILER NAKEUP		321.46				66.50
73 LINE (TONSI, COOLING WATER - BOILER NAKEUP		48.15				
74 ALUN (TONS), COOLING WATER - BOILER NAKEUP		7.45				
75 CHLORINE (TONS), COOLING WATER - BOILER NAKEUP	.68	27.09 17.36	.30	13.81		
76 OTHER (YES/NO), COOLING WATER - BOILER NAKEUP		YES	YES	YES		YES
77 SEWAGE OISPOSAL: NETHOO PS, ST, SW, OT[16]	ST	ST	PS	ST	ST	
78 RECEIVING WATER BOOY	L NICHIGAN	B SAGINAW		L NICHIGAN		
79 PONO OISCHARGE:[16] PH, BOILER BLOWDOWN - ASH SETTLING		10.00 8.00	11.00 8.00	9.50 7.50		
80 SUSPENOED SOLIOS (PPN), BOILER BLOWDOWN - ASH SETTLING		5.00	50.00	3.00 12.00		
81 VOLUNE I1,000 CUFT/YRI, BOILER BLOWDOWN						
82 - ASH SETTLING				316,000.00		

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (NW) USING[17]: ONCE THROUGH COOLING (FRESH)	1 75.00	2 530.00	1 30.00	2 650.00	1 720.00	
84 ONCE THROUGH COOLING ISALINEI						
85 COOLING PONOIS)						
86 COOLING TOWERIS)						
87 COMBINATION[17]						
88 COOLING SYSTEH, YEAR OF INSTALLATION: OLDEST SYSTEN - NEWEST SYSTEN	1962	1959 1961	1925	1962 1966	1969	
89 OESIGN: TENP. RISE ACROSS CONOENSERS IOEG. FI, SMALLEST - LARGEST[17]	20.00	14.33	13.00	16.67 18.33	28.00	
90 TOTAL RATE OF FLOW THROUGH ALL CONOENSERS (CFS)	104.30	664.00	77.90	668.00	865.00	
91 TOTAL RATE OF WITHORAWAL, ONCE THROUGH COOLING SYSTENS ICFSI	104.30	664.00	77.90	668.00	900.00	

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTENS I$1,000)					5,700.00	
93 COOLING PONOS I$1,000)						
94 COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

95 OPERATION AND NAINTENANCE EXPENSES I$1,000)	75.00	19.60	.15	25.40	67.40	
96 COST OF CHENICAL AOOITIVES I$1,000)		5.20	.12	4.30		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION AND MAINTENANCE EXPENSES I$1,000)	10.70	21.10	.51	40.40	71.70	
98 COST OF CHEMICAL ACOITIVES I$1,000)	.03	47.00	.66	7.70	56.60	

99 ALL FOOTNOTES ARE SHOWN AT THE ENO OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	CONSUMERS POWER CO.	CONSUMERS POWER CO.	NEBRASKA PUB PWR DISTRICT	NEBRASKA PUB PWR DISTRICT	CORN BELT POWER CO.	1
2							2
3							3
4	NAME OF PLANT	WEADOCK	WHITING	BLUFFS	SHELDON	HUMBOLDT	4
5	UTILITY-PLANT CODE	114500-2600	114500-2900	115000-1000	115000-1100	117500-0600	5
6	STATE	MICHIGAN	MICHIGAN	NEBRASKA	NEBRASKA	IOWA	6
7	COUNTY	BAY	MONROE	SCOTTS BLUFF	LANCASTER	HUMBOLDT	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	122 04	124 04	148 10	148 10	999 07	8
9	PLANT CAPACITY (MW)	614.50	325.00	42.20	228.85	43.80	9
10	ANNUAL GENERATION (MWH)[3]	2,662,400	2,211,800	222,600	1,342,000	151,400	10
11	PLANT HEAT RATE (BTU/KWH)[3]	10,614	9,913	13,625	10,397	15,160	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	838.00	888.00		260.45	46.41	12
13	AVERAGE HEAT CONTENT (BTU/LB)	11,240	12,334		11,882	11,801	13
14	AVERAGE SULFUR CONTENT (%)	2.73	.98		3.10	2.36	14
15	AVERAGE ASH CONTENT (%)	13.27	11.60		12.69	9.78	15
16	AVERAGE MOISTURE CONTENT (%)	9.35	6.46		7.15	10.89	16
17	OIL: CONSUMPTION (1,000 BARRELS)	1,693.40	1.10	8.48			17
18	AVERAGE HEAT CONTENT (BTU/GAL)	135,000	138,000	151,900			18
19	AVERAGE SULFUR CONTENT (%)	.35	.50	.90			19
20	GAS: CONSUMPTION (1,000 MCF)	1.00		3,003.51	7,829.43	1,294.90	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,000		996	998	998	21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	8	3	4	2	4	22
23	- NO. OF WET BOTTOM				2	1	23
24	- NO. WITH FLY ASH REINJECTION					3	24
25	- NO. WITH MECHANICAL PRECIPITATORS	8	3		1	4	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	2	2				26
27	- NO. WITH COMBINATION PRECIPITATORS[4]						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]						29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	25.00	20.00	15.00	16.00	38.00	30
31	TESTED, LOW - HIGH	80.00 91.00	85.00 86.00		75.00	70.00 96.00	31
32	ESTIMATED, LOW - HIGH						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	81.00	86.00		75.00	85.00	33
34	TESTED, LOW - HIGH	99.00	99.70				34
35	EST., LOW - HIGH	97.60	99.70				35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	97.00	99.50				36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	3.33	5.19		2.17	.69	39
40	SULFUR DIOXIDE (1,000 TONS)	46.83	17.06	.02	15.82	1.87	40
41	NITROGEN OXIDES (1,000 TONS)	11.23	7.99	.60	8.69	.70	41
42	STACKS: - TOTAL NO.	5	3	4	2	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	272.00	297.00	99.50	176.00	150.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	111.00	103.00		25.30	3.96	45
46	SOLD (1,000 TONS)[11]	22.00			4.10		46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	454.10	216.50		60.00	56.40	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	2,934.00	4,440.00				51
52	COMBINATION PRECIPITATORS ($1,000)[4]						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	450.00	209.00	25.92	133.20	42.60	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	193.10	41.00		14.73	9.43	55
56	REVENUES FROM SALE OF ASH ($1,000)	5.50					56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	196.80	44.00		14.73	9.43	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	5.50			.41		60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R SAGINAW	L ERIE	W	W	R DES MOINES	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	545.00	362.00	34.10	5.55	123.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	545.00	362.00	34.10	1.40	123.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]				4.15	1.06	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG	JAN		JAN	OCT NOV	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	34.00	35.00		58.00	62.00 55.00	66
67	AT OUTFALL, SUMMER - WINTER	53.00	59.00		70.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER				INTERMIT		68
69	- WINTER	395.00	286.00		INTERMITTENT		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.60	.47		.10	.35	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	1.75	7.00	.03	16.90	8.49	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		8.00		49.50	37.60	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		.95		2.12		74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP						75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	ST	ST	OT	ST	77
78	RECEIVING WATER BODY		L ERIE			R DES MOINES	78
79	POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	10.70	10.50			10.50	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	8.00	8.00				80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING						81
82							82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	8 614.50	3 325.00	4 42.40		4 43.80	83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING POND(S)						85
86	COOLING TOWER(S)						86
87	COMBINATION[21]				2 228.00		87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1949 1958	1952 1953	1940 1963	1959 1965	1949 1954	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	11.30 16.50	12.10 15.00	26.00	17.80 18.40	9.25 12.10	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,196.00	477.00	60.20	267.40	129.20	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,212.00	477.00			152.00	91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)						92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)				2,301.00	97.00	94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	55.80	9.80		54.25	1.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	4.50	1.30	21.93	107.83	.56	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	61.60	11.30		48.92	10.38	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	25.80	7.70		4.34	3.48	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1 NAME OF UTILITY	CORN BELT POWER CO.	CRAWFOROSVILLE ELEC LT & PWR	DAIRYLAND POWER COOPERATIVE	DAIRYLAND POWER COOPERATIVE	DAIRYLAND POWER COOPERATIVE	
4 NAME OF PLANT	WISDOM	CRAWFOROSVILLE	ALMA	GENOA #3	STONEMAN	
5 UTILITY-PLANT CODE	117500-1000	120500-0100	126000-0100	126000-0450	126000-0500	
6 STATE	IOWA	INDIANA	WISCONSIN	WISCONSIN	WISCONSIN	
7 COUNTY	CLAY	MONTGONERY	BUFFALO	VERNON	GRANT	
8 AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	090 10	084 05	07	07	068 07	
9 PLANT CAPACITY (MW)	37.50	35.15	205.30	345.60	51.75	
10 ANNUAL GENERATION (MWH) [3]	210,800	108,500	1,234,600	1,631,400	221,500	
11 PLANT HEAT RATE (BTU/KWH) [3]	12,500	16,825	10,485	9,208	13,996	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)	43.36	82.54	629.30	768.40	132.60	
13 AVERAGE HEAT CONTENT (BTU/LB)	11,919	11,063	11,666	10,600	11,658	
14 AVERAGE SULFUR CONTENT (%)	2.14	3.57	2.97	4.10	3.60	
15 AVERAGE ASH CONTENT (%)	8.36	12.09	17.89	24.59	18.79	
16 AVERAGE MOISTURE CONTENT (%)	8.99		12.52	10.58	10.45	
17 OIL: CONSUMPTION (1,000 BARRELS)			4.43	17.20	1.46	
18 AVERAGE HEAT CONTENT (BTU/GAL)			140,000	140,000	140,000	
19 AVERAGE SULFUR CONTENT (%)			.30	.30	.30	
20 GAS: CONSUMPTION (1,000 MCF)	1,602.92					
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,000					

PLANT EQUIPMENT DATA

22 BOILERS: - TOTAL NO.	1	2	5	1	2	
23 - NO. OF WET BOTTOM						
24 - NO. WITH FLY ASH REINJECTION						
25 - NO. WITH MECHANICAL PRECIPITATORS	1		5		2	
26 - NO. WITH ELECTROSTATIC PRECIPITATORS				1		
27 - NO. WITH COMBINATION PRECIPITATORS [4]						
28 - NO. WITH DESULFURIZATION SYSTEMS						
29 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]			20.00 25.00	20.00	20.00	
30 MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			77.00 90.00		84.00	
31 TESTED, LOW - HIGH						
32 ESTIMATED, LOW - HIGH	80.00	82.00 84.00	77.00 90.00		85.00	
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH				99.00		
34 TESTED, LOW - HIGH						
35 EST., LOW - HIGH				95.00		
36 DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH			70.00			
37 TESTED, LOW - HIGH						
38 ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.62	1.10	14.23	8.03	3.17	
40 SULFUR OIOXIDE (1,000 TONS)	1.82	5.78	36.64	61.77	9.34	
41 NITROGEN OXIDES (1,000 TONS)	.70	.62	5.67	6.95	1.19	
42 STACKS: - TOTAL NO.	1	2	3	1	2	
43 - HEIGHT (FEET), LOWEST - HIGHEST [8]	148.00	199.00	189.50 210.00	500.00	138.00	
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]			.01			
45 TOTAL ASH: COLLECTED (1,000 TONS) [10]	2.84	10.84	98.70	180.00	21.86	
46 SOLD (1,000 TONS) [11]				10.40		
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
49 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	21.40		104.80		45.50	
51 ELECTROSTATIC PRECIPITATORS ($1,000)				811.00		
52 COMBINATION PRECIPITATORS ($1,000) [4]						
53 DESULFURIZATION SYSTEMS ($1,000)			300.00			
54 STACKS ($1,000)	27.70		140.00	605.00	24.40	
55 ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	2.00	4.52	79.50	236.80	15.10	
56 REVENUES FROM SALE OF ASH ($1,000)				15.60		
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)			6.00			
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	1.00	4.52	85.50	236.80	15.10	
60 TOTAL BYPRODUCT SALES REVENUES ($1,000)				15.60		

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES R, L, S, C, W, M & O EXPL. IN FOOTNOTES)	O GROUND WATER	C SUGAR	R MISSISSIPPI	R MISSISSIPPI	R MISSISSIPPI	
62 AVERAGE RATE OF WITHDRAWAL (CFS)	36.60	6.60	274.50	211.80	71.20	
63 AVERAGE RATE OF DISCHARGE (CFS)		5.50	274.50	211.80	71.20	
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	34.60	6.10	2.34	1.82 .61		
65 PEAK LOAD MONTH : SUMMER - WINTER [15]	OCT NOV	AUG OEC	AUG JAN	AUG JAN	AUG JAN	
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		80.60 82.00	78.00 36.00	79.00 46.00	81.00 34.00	
67 AT OUTFALL, SUMMER - WINTER		88.00 91.00	90.00 53.00	100.00 78.00	95.00 54.00	
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			27,200.00	27,200.00	35,000.00	
69 - WINTER			12,700.00	12,700.00	25,700.00	
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [16]		C				
71 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.01		.17		.03	
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.01	5.50 10.50	.04	1.02	.72	
73 LIME (TONS), COOLING WATER - BOILER MAKEUP	96.22					
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP	9.62		4.16		.34	
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.18	4.50		2.00		
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES	
77 SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	ST	PS	PS	PS	
78 RECEIVING WATER BODY			R MISSISSIPPI		R MISSISSIPPI	
79 POND DISCHARGE [19] PH, BOILER BLOWDOWN - ASH SETTLING		8.10			8.40	
80 SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					70.00	
81 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING						

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)			5 187.90	1 346.00	2 51.80	
84 ONCE THROUGH COOLING (SALINE)						
85 COOLING POND(S)						
86 COOLING TOWER(S)	1 37.50	2 24.15				
87 COMBINATION [21]						
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1960	1965	1947 1959	1969	1951 1952	
89 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]			18.00	17.30	16.00 16.93	
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)		62.38	280.00	362.00	85.90	
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)			1,841.50	378.00	94.90	

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTEMS ($1,000)			1,085.30	1,168.00	413.20	
93 COOLING PONDS ($1,000)						
94 COOLING TOWERS ($1,000)	126.10					

ANNUAL COOLING WATER EXPENSES

95 OPERATION AND MAINTENANCE EXPENSES ($1,000)	2.00	64.15	2.50	46.60	2.50	
96 COST OF CHEMICAL ADDITIVES ($1,000)	8.90	17.49		.50		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION AND MAINTENANCE EXPENSES ($1,000)	1.00	45.17	17.10	37.70	13.00	
98 COST OF CHEMICAL ADDITIVES ($1,000)	1.00	3.15	2.20	1.80	.80	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	DAIRYLAND POWER COOPERATIVE	DALLAS POWER & LIGHT CO.	DALLAS POWER & LIGHT CO.	DALLAS POWER & LIGHT CO.	DALLAS POWER & LIGHT CO.	
NAME OF PLANT	GENOA (NUCLEAR)	DALLAS	MOUNTAIN CREEK	NORTH LAKE	PARKDALE	
UTILITY-PLANT CODE	126000-0700	126500-0100	126500-0200	126500-0300	126500-0400	
STATE	WISCONSIN	TEXAS	TEXAS	TEXAS	TEXAS	
COUNTY	VERNON	DALLAS	DALLAS	DALLAS	DALLAS	
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	[illegible] 07	[illegible] 12	12	12	12	
PLANT CAPACITY (MW)	50.00	223.75	989.74	TOB.A1	340.A3	
ANNUAL GENERATION (MWH) 3/	198,500	370,900	3,779,300	2,451,400	A74,700	
PLANT HEAT RATE (BTU/KWH) 3/		13,737	10,488	10,A57	12,352	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)					
AVERAGE HEAT CONTENT (BTU/LB)					
AVERAGE SULFUR CONTENT (%)					
AVERAGE ASH CONTENT (%)					
AVERAGE MOISTURE CONTENT (%)					
OIL: CONSUMPTION (1,000 BARRELS)		49.54	274.77	272.71	79.76
AVERAGE HEAT CONTENT (BTU/GAL)		146,071	146,071	146,071	14A,071
AVERAGE SULFUR CONTENT (%)		.67	.84	1.03	.96
GAS: CONSUMPTION (1,000 MCF)		4,634.29	37,178.81	23,786.03	7,711.26
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,034	1,021	1,032	1,017

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.		9	8	3	3
- NO. OF WET BOTTOM					
- NO. WITH FLY ASH REINJECTION					
- NO. WITH MECHANICAL PRECIPITATORS					
- NO. WITH ELECTROSTATIC PRECIPITATORS					
- NO. WITH COMBINATION PRECIPITATORS 4/					
- NO. WITH DESULFURIZATION SYSTEMS					
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/		10.00	19.00	8.00	8.00
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					
TESTED, LOW - HIGH					
ESTIMATED, LOW - HIGH					
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH					
TESTED, LOW - HIGH					
EST., LOW - HIGH					
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH					
TESTED, LOW - HIGH					
ESTIMATED, LOW - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)		.01	.05	.05	.01
SULFUR DIOXIDE (1,000 TONS)		.11	.77	.94	.26
NITROGEN OXIDES (1,000 TONS)		1.01	7.86	5.24	1.68
STACKS: - TOTAL NO.		7	8	6	6
- HEIGHT (FEET), LOWEST - HIGHEST 8/		361.00	186.00	193.00	156.00
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/					
TOTAL ASH: COLLECTED (1,000 TONS) 10/					
SOLD ((,000 TONS) 11/					
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/					
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)					
ELECTROSTATIC PRECIPITATORS ($1,000)					
COMBINATION PRECIPITATORS ($1,000) 4/					
DESULFURIZATION SYSTEMS ($1,000)					
STACKS ($1,000)		203.00	200.00	94.00	48.00
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)					
REVENUES FROM SALE OF ASH ($1,000)					
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)					
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)					
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/					
TOTAL BYPRODUCT SALES REVENUES ($1,000)					

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MISSISSIPPI	W	O SURFACE	M	C WHITE ROCK
AVERAGE RATE OF WITHDRAWAL (CFS)	102.70	1.50	786.00	619.00	2.70
AVERAGE RATE OF DISCHARGE (CFS)	102.70		780.00	615.00	.50
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/		1.50	6.00	4.00	2.20
PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG JAN		AUG FEB		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	47.00		58.00		
AT OUTFALL, SUMMER - WINTER	70.00		58.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER					
- WINTER	12,700.00		152.00		
FREQUENCY OF TEMPERATURE MONITORING: C, M, O, O 16/					
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP					
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	4.20	.80	1.15	1.10	.60
LIME (TONS), COOLING WATER - BOILER MAKEUP			468.00	241.50	70.85
ALUM (TONS), COOLING WATER - BOILER MAKEUP				8.00	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP					
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES	YES	YES	YES
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	PS	PS	PS	OT	PS
RECEIVING WATER BODY				O N. LAKE RESRVR	
POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASN SETTLING					
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASN SETTLING			1.0		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASN SETTLING					

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 1/: ONCE THROUGH COOLING (FRESH)	1 50.00				
ONCE THROUGH COOLING (SALINE)					
COOLING POND(S)		3 70.00	6 989.70	3 708.60	
COOLING TOWER(S)		2 153.80			3 340.60
COMBINATION 21/					
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1964	1923 1954	1938	1959	1968
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	30.00	16.00	20.00	16.00	21.00
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	133.60	257.00	1,578.00	898.00	432.00
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	133.60				

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	748.20				
COOLING PONDS ($1,000)		495.00	4,333.00	3,555.00	
COOLING TOWERS ($1,000)		1,405.00			3,447.00

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	2.90	129.00	112.00	86.00	84.00
COST OF CHEMICAL ADDITIVES ($1,000)		18.00	2.00	1.00	13.00

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	8.00	35.00	35.00	28.00	16.00
COST OF CHEMICAL ADDITIVES ($1,000)	4.00	1.00	49.00	21.00	7.00

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	DALLAS POWER & LIGHT CO.	CITY OF DANVILLE WTR, GAS, & ELEC DEPT.	ATLANTIC CITY ELECTRIC CO.	DELMARVA POWER & LIGHT CO. OF MD.	DELMARVA POWER & LIGHT CO.	
2							
3							
4	NAME OF PLANT	LAKE HUBBARD	BRANTLY	DEEPWATER	VIENNA	DELAWARE CITY	
5	UTILITY-PLANT CODE	126500-0500	127000-0100	128500-0100	129500-0300	130500-0100	
6	STATE	TEXAS	VIRGINIA	NEW JERSEY	MARYLAND	DELAWARE	
7	COUNTY	DALLAS	PITTSYLVANIA	SALEM	DORCHESTER	NEW CASTLE	
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	215 12	222 03	045 02	114 02	045 02	
9	PLANT CAPACITY (MW)	927.52	29.00	308.30	229.50	130.00	
10	ANNUAL GENERATION (MWH) [3]	1,058,100	172,300	1,387,600	1,149,400	1,149,400	
11	PLANT HEAT RATE (BTU/KWH) [3]	12,133	15,887	19,303	12,185	16,682	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)		49.53	14.05		168.97	
13	AVERAGE HEAT CONTENT (BTU/LB)		13,350	11,475		14,170	
14	AVERAGE SULFUR CONTENT (%)		.90	2.90		6.70	
15	AVERAGE ASH CONTENT (%)		9.50	15.20		.30	
16	AVERAGE MOISTURE CONTENT (%)		3.00	6.30		.46	
17	OIL: CONSUMPTION (1,000 BARRELS)	345.08	.48	3,893.53	2,284.00	1,639.00	
18	AVERAGE HEAT CONTENT (BTU/GAL)	146,071	134,000	143,853	146,000	147,417	
19	AVERAGE SULFUR CONTENT (%)	.15	.25	.34	.90	2.25	
20	GAS: CONSUMPTION (1,000 MCF)	10,477.35	1,351.40	2,855.75		4,114.00	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,023	1,045	1,029		1,030	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2	3	8	7	4			
23	- NO. OF WET BOTTOM			5		4			
24	- NO. WITH FLY ASH REINJECTION				1	4			
25	- NO. WITH MECHANICAL PRECIPITATORS		3	7	6	3			
26	- NO. WITH ELECTROSTATIC PRECIPITATORS			1					
27	- NO. WITH COMBINATION PRECIPITATORS [4]					1			
28	- NO. WITH DESULFURIZATION SYSTEMS								
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	7.00 8.00	20.00	7.00 30.00	15.00 29.00	20.00			
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		84.00 84.70	82.00 88.00	50.00 95.00				
31	TESTED, LOW - HIGH			64.50 84.10	38.20 63.20				
32	ESTIMATED, LOW - HIGH		84.00 84.70		75.00 87.50	75.00			
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH			90.00		99.30			
34	TESTED, LOW - HIGH			90.70		99.20			
35	EST., LOW - HIGH			76.00					
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH								
37	TESTED, LOW - HIGH								
38	ESTIMATED, LOW - HIGH								

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.06	.61	.40	.09	.12			
40	SULFUR OIOXIDE (1,000 TONS)	.17	.87	5.55	6.90	34.57			
41	NITROGEN OXIDES (1,000 TONS)	2.80	.71	8.70	5.04	6.95			
42	STACKS: - TOTAL NO.	2	3	6	7	1			
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	156.00 199.00	62.50	175.20 225.50	133.00 160.00	500.00			
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]								
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]		4.10	2.10		8.30			
46	SOLD (1,000 TONS) [11]					2.80			
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)								
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]								
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)								
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		28.00	373.50	134.00				
51	ELECTROSTATIC PRECIPITATORS ($1,000)			218.20					
52	COMBINATION PRECIPITATORS ($1,000) [4]								
53	DESULFURIZATION SYSTEMS ($1,000)								
54	STACKS ($1,000)	136.00	19.50	313.70	86.00	265.00			
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)					4.10			
56	REVENUES FROM SALE OF ASH ($1,000)					23.30			
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)								
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)								
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]					4.10			
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)					23.30			

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CITIES R, L, O, C, W, M & D EXPL. IN FOOTNOTES)	R TRINITY	R OAN	R DELAWARE	R NANTICOKE	R DELAWARE			
62	AVERAGE RATE OF WITHDRAWAL (CFS)	240.00	69.00	476.00	129.70	150.00			
63	AVERAGE RATE OF DISCHARGE (CFS)	239.00	69.00	476.00	123.90	150.00			
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	1.00 .59		4.09	5.80	1.29			
65	PEAK LOAD MONTH : SUMMER - WINTER [15]		AUG JAN	AUG JAN	AUG DEC	AUG JAN			
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	84.00 47.00	94.00 46.00	83.00 47.00	80.00 40.00	84.00 40.00			
67	AT OUTFALL, SUMMER - WINTER	110.00 60.00	103.00 57.00	95.00 59.00	90.00 50.00				
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		1,200.00	362,000.00	20,000.00	5,000.00			
69	- WINTER		2,200.00	362,000.00	20,000.00	12,000.00			
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D [16]	H	H			C			
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.05	.95	1.05	.45	.37			
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	83.40	2.03		3.00	316.44			
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	27.15		6.91	.05	20.67			
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP								
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	4.00	2.00	88.00	2.00	13.64			
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES			
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	OT	PS	ST	PS	OT			
78	RECEIVING WATER BODY	L RAY HUBBARD		R DELAWARE					
79	POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	8.00		9.00	11.00				
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	70.00	425.00	5.00	400.00	5,000.00			
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN		197.00	27,200.00	30.00				
82	- ASH SETTLING		205.00		3,000.00				

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)		3 29.00						
84	ONCE THROUGH COOLING (SALINE)			4 261.10	7 94.50	3 125.00			
85	COOLING POND(S)	2 927.50							
86	COOLING TOWER(S)				1 150.00				
87	COMBINATION [21]								
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1970 1973	1949 1953	1930 1958	1928 1971	1956 1961			
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	16.00 19.00	13.40 13.80	10.00 12.00	16.00 25.00	13.00			
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,181.00	68.70	620.00	358.00	154.00			
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		68.70	620.00	211.00	154.00			

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)		270.00	2,156.80	519.00		
93	COOLING PONDS ($1,000)	2,883.00					
94	COOLING TOWERS ($1,000)				469.00		

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	16.00		28.00	10.00		
96	COST OF CHEMICAL ADDITIVES ($1,000)	1.00	.26	7.70	5.00		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	21.00		69.20	6.00		
98	COST OF CHEMICAL ADDITIVES ($1,000)	12.00	1.57	1.90	3.00	53.30	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	DELMARVA POWER & LIGHT CO.	DELMARVA POWER & LIGHT CO.	DOVER, CITY OF	DETROIT PUBLIC LIGHTING COMM.	DOVER, CITY OF
NAME OF PLANT	EDGE MOOR	INDIAN RIVER	DOVER	MISTERSKY	MCKEE RUN
UTILITY-PLANT CODE	130500-0200	130500-0300	132000-0100	136000-0100	188500-0100
STATE	DELAWARE	DELAWARE	TEXAS	MICHIGAN	DELAWARE
COUNTY	NEW CASTLE	SUSSEX	DENTON	WAYNE	KENT
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	045 02	046 02	219 12	124 04	046 02
PLANT CAPACITY (MW)	800.00	340.00	188.28	174.00	37.50
ANNUAL GENERATION (MWH)[3]	2,252,800	2,056,800	398,000	714,500	168,900
PLANT HEAT RATE (BTU/KWH)[3]	11,968	9,728	13,139	10,909	14,441

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)		814.00		347.92	2.40
AVERAGE HEAT CONTENT (BTU/LB)		12,130		11,210	13,000
AVERAGE SULFUR CONTENT (%)		1.63		1.42	3.30
AVERAGE ASH CONTENT (%)		11.76		12.61	10.90
AVERAGE MOISTURE CONTENT (%)		7.38		9.33	4.10
OIL: CONSUMPTION (1,000 BARRELS)	4,528.00	49.00	53.75		351.00
AVERAGE HEAT CONTENT (BTU/GAL)	138,356	137,631	139,800		149,195
AVERAGE SULFUR CONTENT (%)	.52	.17	.10		1.03
GAS: CONSUMPTION (1,000 MCF)	631.00		4,579.64		182.10
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,030		1,073		1,000

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	5	3	5	10	2
- NO. OF WET BOTTOM				2	
- NO. WITH FLY ASH REINJECTION	1				
- NO. WITH MECHANICAL PRECIPITATORS	4				2
- NO. WITH ELECTROSTATIC PRECIPITATORS	1				
- NO. WITH COMBINATION PRECIPITATORS[4]		3		2	
- NO. WITH DESULFURIZATION SYSTEMS					
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]					
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	[illegible]	20.00	12.00	20.00	15.00
TESTED, LOW - HIGH	92.00	85.50			94.90
ESTIMATED, LOW - HIGH	86.90	65.90			85.60
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	78.00	85.50		85.50	82.20
TESTED, LOW - HIGH		95.00		97.70	
EST., LOW - HIGH		98.60			
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH		95.00		97.70	
TESTED, LOW - HIGH		99.50			
ESTIMATED, LOW - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.12	1.15	.01	6.70	.05
SULFUR DIOXIDE (1,000 TONS)	7.90	26.03	.01	9.68	1.36
NITROGEN OXIDES (1,000 TONS)	10.11	7.43	1.09	4.88	.83
STACKS: - TOTAL NO.	5	3	5	6	1
- HEIGHT (FEET), LOWEST - HIGHEST[8]	250.00	275.00	385.00	80.50	195.00	175.00
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	.02				
TOTAL ASH: COLLECTED (1,000 TONS)[10]		95.00		30.90	
SOLD (1,000 TONS)[11]					
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]					
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	253.00				
ELECTROSTATIC PRECIPITATORS ($1,000)	200.00				
COMBINATION PRECIPITATORS ($1,000)[4]		996.00		211.20	
DESULFURIZATION SYSTEMS ($1,000)					
STACKS ($1,000)	281.00	686.00		23.50	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		54.00		35.98	
REVENUES FROM SALE OF ASH ($1,000)					
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)					
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)					
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	2.60	54.00		42.78	
TOTAL BYPRODUCT SALES REVENUES ($1,000)					

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R DELAWARE	R INDIAN	O SEWAGE EFFLNT.	R DETROIT	M
AVERAGE RATE OF WITHDRAWAL (CFS)	1,314.00	614.00		243.00	
AVERAGE RATE OF DISCHARGE (CFS)	1,314.00	614.00		241.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	11.30	2		2.00	
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG	AUG		AUG	JAN	AUG	DEC
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	82.00	41.00	42.00	77	35.00	
AT OUTFALL, SUMMER - WINTER	98.00	59.00	56.00	85	48.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	5,000.00				
- WINTER	12,000.00	2,507.00		234.00	
FREQUENCY OF TEMPERATURE MONITORING: C, M, O, ON[16]	C				
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	9.00	.25	.05	.88	.19
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	77.08	34.50	.04	11.19	
LIME (TONS), COOLING WATER - BOILER MAKEUP					
ALUM (TONS), COOLING WATER - BOILER MAKEUP					
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP					
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	45	3.27			
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	YES	YES	YES	YES	YES
RECEIVING WATER BODY	ST	ST	PS	PS	PS
POND DISCHARGE[19] PH, BOILER BLOWDOWN - ASH SETTLING	O DRAIN FIELD		M		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	9.00	3.60			2.00
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	1,150.00				10.00
- ASH SETTLING	475.40	2,800.00			

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)				6 174.00		
ONCE THROUGH COOLING (SALINE)	1 409.00	3 340.00				
COOLING PONDS						
COOLING TOWERS			5 189.28		2 37.50
COMBINATION[20]	4 357.00				
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST - NEWEST SYSTEM	1951	1957 1970	1955 1973	1927 1956	1961
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[21]	1973	13.50	14.00	10.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	10.00	585.00	33.46	443.50	20.00
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,468.00	585.00		212.50	42.30
	1,593.00				

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	2,533.00	385.00				
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)			794.76			

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	340.22	15.00	12.52	15.87		
COST OF CHEMICAL ADDITIVES ($1,000)	7.90	11.00	35.74	1.30	7.60	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	76.90	25.00	13.44	3.96		
COST OF CHEMICAL ADDITIVES ($1,000)	66.40	17.00	1.05	3.79	.15	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	DUKE POWER CO.	DUKE POWER CO.	DUKE POWER CO.	DUKE POWER CO.	DUKE POWER CO.	1
2							2
3							3
4	NAME OF PLANT	ALLEN	BUCK	CLIFFSIDE	OAN RIVER	LEE	4
5	UTILITY-PLANT CODE	139500-0200	139500-0500	139500-0800	139500-1000	139500-1900	5
6	STATE	NORTH CAROLINA	NORTH CAROLINA	NORTH CAROLINA	NORTH CAROLINA	SOUTH CAROLINA	6
7	COUNTY	GASTON	ROWAN	CLEVELAND	ROCKINGHAM	ANDERSON	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	167 03	167 03	165 03	136 03	202 03	8
9	PLANT CAPACITY (MW)	1,140.00	519.00	770.00	284.00	323.00	9
10	ANNUAL GENERATION (MWH)[3]	7,747,200	2,776,600	4,542,900	1,991,800	2,354,500	10
11	PLANT HEAT RATE (BTU/KWH)[3]	9,197	10,916	10,199	10,423	9,986	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	2,977.55	1,043.02	1,872.98	866.03	929.24	12
13	AVERAGE HEAT CONTENT (BTU/LB)	11,965	12,125	12,368	11,963	11,545	13
14	AVERAGE SULFUR CONTENT (%)	.89	.88	1.30	.92	1.17	14
15	AVERAGE ASH CONTENT (%)	12.53	11.54	13.57	12.69	14.21	15
16	AVERAGE MOISTURE CONTENT (%)	7.03	6.95	5.49	6.95	7.84	16
17	OIL: CONSUMPTION (1,000 BARRELS)	12.98	167.81	22.98	6.49	3.86	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	138,000	138,429	138,000	138,000	138,000	18
19	AVERAGE SULFUR CONTENT (%)	.20	.20	.20	.20	.20	19
20	GAS: CONSUMPTION (1,000 MCF)					1,993.77	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)					1,030	21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	5	9	5	3	3	22
23	- NO. OF WET BOTTOM			1			23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS				1	1	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	3	5	5	3	3	26
27	- NO. WITH COMBINATION PRECIPITATORS[4]	2					27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	19.00 23.00	20.00 22.80	19.00 22.00	22.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH				85.00	85.00	30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	99.00 99.50	99.00 99.00	99.00 99.50	99.00 99.20	99.00	33
34	TESTED, LOW - HIGH	97.12		99.29	98.73 99.55		34
35	EST., LOW - HIGH	97.10 99.50	99.00	99.00	99.10	99.00	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	3.95	1.43	1.45	.84	1.12	39
40	SULFUR DIOXIDE (1,000 TONS)	51.95	18.00	47.73	15.62	21.31	40
41	NITROGEN OXIDES (1,000 TONS)	26.82	9.43	25.03	7.81	8.76	41
42	STACKS: - TOTAL NO.	5	9	5	4	6	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	252.25	215.50	500.00	188.00	213.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						44
45	TOTAL ASH: COLLECTED 11,000 TONS)[10]	365.40	118.00	246.70	109.10	130.10	45
46	SOLD 11,000 TONS)[11]	22.30					46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				93.00	97.00	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	13,955.00	9,242.00	8,531.00	3,693.00	7,814.00	51
52	COMBINATION PRECIPITATORS ($1,000)[4]	9,488.00					52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	594.60	53.28	994.44	57.98	56.82	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	169.50	84.60	130.00	32.00	75.20	55
56	REVENUES FROM SALE OF ASH ($1,000)	2.80					56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	169.50	84.60	130.00	32.00	75.20	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	2.80					60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L WYLIE	L HIGH ROCK	R BROAD	R OAN	R SALUDA	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	1,141.00	575.40	341.00	362.20	415.60	62
63	AVERAGE RATE OF DISCHARGE (CFS)	1,141.00	575.40	328.60	362.20	411.40	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	9.81	4.95	12.40	3.21	4.20	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG OEC	AUG OEC	AUG OEC	AUG OEC	AUG OEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	85.00 58.00	83.00 50.00	75.20 41.80	79.00 48.00	81.00 57.00	66
67	AT OUTFALL, SUMMER - WINTER	103.40 76.90	95.00 75.00	57.10	93.00 71.00	94.00 79.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						68
69	- WINTER			83.90			69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.03	.10	10.00 .05		.15	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP			255.89			72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP			853.49			74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		23.00	14.00	6.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST/OT	ST/OT	ST/OT	OT	ST/OT	77
78	RECEIVING WATER BODY	L WYLIE	R YADKIN	R BROAD	R OAN	R SALUDA	78
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	10.70	9.00	8.80		7.50	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						80
81	VOLUME 11,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING						82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	5 1,155.00	6 440.00	4 210.00	3 290.00		83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING POND(S)						85
86	COOLING TOWER(S)			1 571.00			86
87	COMBINATION[4]					3 355.00	87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1957 1961	1926 1953	1940 1972	1949 1955	1951 1958	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[20]	17.70 18.00	11.70 13.90	13.40 23.00	16.20 16.20	14.90 16.80	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,214.10	900.00	963.60	433.10	494.70	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,334.00	900.00	416.00	441.00	363.00	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	4,000.00	727.00	359.00	855.00	552.00	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)			2,315.80		951.00	94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)						95
96	COST OF CHEMICAL ADDITIVES ($1,000)		3.50	46.00	2.00		96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)						97
98	COST OF CHEMICAL ADDITIVES ($1,000)		3.00	1.00	.60	1.30	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	DUKE POWER CO.	DUKE POWER CO.	DUKE POWER CO.	DUKE POWER CO.	DUKE POWER CO.	1
2							2
3							3
4	NAME OF PLANT	MARSHALL	OCONEE	RIVERBEND	TIGER	GREENWOOD	4
5	UTILITY-PLANT CODE	139500-2200	139500-2350	139500-2600	139500-3000	139500-3200	5
6	STATE	NORTH CAROLINA	SOUTH CAROLINA	NORTH CAROLINA	SOUTH CAROLINA	SOUTH CAROLINA	6
7	COUNTY	CATAWBA	OCONEE	GASTON	SPARTANBURG	GREENWOOD	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	165 03	202 03	167 03	202 03	203 03	8
9	PLANT CAPACITY (MW)	2,025.00	841.10	730.00	28.60	32.00	9
10	ANNUAL GENERATION (MWH)[3]	15,437,700	1,959,100	3,551,100	18,900	124,500	10
11	PLANT HEAT RATE (BTU/KWH)[3]	8,818	10,469	10,369	30,933	13,919	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	5,669.77		1,321.17	21.31		12
13	AVERAGE HEAT CONTENT (BTU/LB)	11,737		11,834	13,700		13
14	AVERAGE SULFUR CONTENT (%)	.96		.89	.70		14
15	AVERAGE ASH CONTENT (%)	13.55		13.64	6.00		15
16	AVERAGE MOISTURE CONTENT (%)	7.79		6.69	4.00		16
17	OIL: CONSUMPTION (1,000 BARRELS)	523.00		161.71		141.28	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	138,172		138,620		138,172	18
19	AVERAGE SULFUR CONTENT (%)	.20		.20		.20	19
20	GAS: CONSUMPTION (1,000 MCF)			657.39		886.10	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)			1,030		1,030	21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	4		14	8	1	22
23	- NO. OF WET BOTTOM					1	23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS	1					25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	2		4			26
27	- NO. WITH COMBINATION PRECIPITATORS[4]	2					27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	18.00		20.00 44.00	40.00	10.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00					30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	99.00 99.70		99.03 99.06			33
34	TESTED, LOW - HIGH						34
35	EST., LOW - HIGH	99.70		99.00			35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	1.96		7.69	.83	.02	39
40	SULFUR DIOXIDE (1,000 TONS)	107.03		23.15	.29	.09	40
41	NITROGEN OXIDES (1,000 TONS)	52.18		12.37	.16	.48	41
42	STACKS: - TOTAL NO.	4		18	2	1	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	280.50		71.08 226.75	217.00	165.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	762.90		167.30	1.30		45
46	SOLD (1,000 TONS)[11]	20.70					46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	222.00					50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	7,664.00		10,949.00			51
52	COMBINATION PRECIPITATORS ($1,000)[4]	3,612.00					52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	1,095.80		108.72			54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	260.63		86.40	7.60		55
56	REVENUES FROM SALE OF ASH ($1,000)	11.86					56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	278.42		91.20	7.60		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	11.86					60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L NORMAN	L KEOWEE	L MTN. ISLAND	R MIDDLE TIGER	O PONDS	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	1,784.20	1,340.00	589.80	1.85	.38	62
63	AVERAGE RATE OF DISCHARGE (CFS)	1,784.20	1,340.00	589.80	1.85		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	15.34	11.52	5.07		.38	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG OEC	AUG OEC	AUG OEC	AUG OEC		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	73.80 60.50	59.00 60.00	82.00 51.00	84.00 55.00	60.00 40.00	66
67	AT OUTFALL, SUMMER - WINTER	91.20 80.10	75.00 79.00	92.00 69.00	101.00 75.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						68
69	- WINTER						69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]		O				70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP			.01		.50	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP					.16	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP			.10			75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	OT	OT	ST/OT	ST	PS	77
78	RECEIVING WATER BODY	L NORMAN	L HARTWELL	L MTN. ISLAND	R MIDDLE TIGER		78
79	PONO DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	8.00		9.40		6.80	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING					11.60	82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	4 2,000.00	1 841.10	7 631.00			83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING POND(S)						85
86	COOLING TOWER(S)					1 36.00	86
87	COMBINATION[21]				2 30.00		87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1965 1970	1973	1929 1954	1924	1956	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	17.00 17.60	15.00	12.60 15.70		20.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	2,157.00	1,374.30	1,076.20	1.86	67.20	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	3,299.50	1,374.30	1,100.00	1.87		91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	3,539.00	2,500.00	383.00			92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)						94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)						95
96	COST OF CHEMICAL ADDITIVES ($1,000)					4.10	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)						97
98	COST OF CHEMICAL ADDITIVES ($1,000)	2.50		5.00		.60	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	DUQUESNE LIGHT CO.	DUQUESNE LIGHT CO.	DUQUESNE LIGHT CO.	DUQUESNE LIGHT CO.	DUQUESNE LIGHT CO.	1
2							2
3							3
4	NAME OF PLANT	ELRAMA	PHILLIPS	REEO	SHIPPINGPORT	CHESWICK	4
5	UTILITY-PLANT CODE	140000-0200	140000-0300	140000-0400	140000-0500	140000-0600	5
6	STATE	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	6
7	COUNTY	WASHINGTON	ALLEGHENY	ALLEGHENY	BEAVER	ALLEGHENY	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	197 05	197 05	197 05	197 05	197 05	8
9	PLANT CAPACITY (MW)	510.00	411.00	180.00	100.00	565.00	9
10	ANNUAL GENERATION (MWH) [3]	3,195,500	2,332,000	129,700	184,900	3,347,200	10
11	PLANT HEAT RATE (BTU/KWH) [3]	10,601	12,006	19,407		9,598	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	1,539.45	1,232.22	102.42		1,443.53	12
13	AVERAGE HEAT CONTENT (BTU/LB)	10,996	11,342	12,284		11,038	13
14	AVERAGE SULFUR CONTENT (%)	2.13	1.89	1.63		2.16	14
15	AVERAGE ASH CONTENT (%)	20.07	16.74	13.50		20.33	15
16	AVERAGE MOISTURE CONTENT (%)	5.24	5.88	4.65		5.22	16
17	OIL: CONSUMPTION (1,000 BARRELS)	3.54	7.94			44.15	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	142,000	142,000			142,000	18
19	AVERAGE SULFUR CONTENT (%)	.10	.10			.10	19
20	GAS: CONSUMPTION (1,000 MCF)						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)						21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	4	6	6		1	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS					1	26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	4	6				27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	18.00 25.00	26.00	37.00		18.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	97.90 98.30	95.00 98.20			99.50	33
34	TESTED, LOW - HIGH					99.40	34
35	EST., LOW - HIGH	92.00	90.00 92.00				35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	21.01	16.39	8.99		1.50	39
40	SULFUR DIOXIDE (1,000 TONS)	64.27	45.65	3.27		61.13	40
41	NITROGEN OXIDES (1,000 TONS)	13.86	11.11	.77		13.09	41
42	STACKS: - TOTAL NO.	4	6	2		1	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	272.00 292.00	250.00 300.50	250.00		750.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	289.60	191.00	12.40		289.10	45
46	SOLD (1,000 TONS) [11]			9.80			46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)					1,473.00	51
52	COMBINATION PRECIPITATORS ($1,000) [4]	1,803.50	2,485.60				52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	352.80	310.80	88.40		1,313.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	1,152.00	254.40	30.10		155.50	55
56	REVENUES FROM SALE OF ASH ($1,000)			2.00			56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	1,152.00	254.40	57.40		751.60	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)			2.00			60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MONONGAHELA	R OHIO	R OHIO	R OHIO	R ALLEGHENY	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	589.50	615.80		193.10	470.40	62
63	AVERAGE RATE OF DISCHARGE (CFS)	589.50	614.90		193.10	470.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	5.07	5.30 .90		1.66	4.05 .40	64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG JAN	AUG JAN	AUG JAN	AUG JAN	AUG JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	96.00 45.00	84.00 43.00		89.00 46.00	84.00 34.00	66
67	AT OUTFALL, SUMMER - WINTER	120.00 81.00	98.00 68.00		104.00 69.00	107.00 56.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						68
69	- WINTER						69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D [16]						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.03	.74	.70	.02	.10	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP						72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	18.00	36.00	4.90	8.00	22.00	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	PS	OT	ST	PS	77
78	RECEIVING WATER BODY [19]			R OHIO			78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	9.00	8.00				79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	60.00	50.00				80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING	343,000.00	328,000.00				82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	4 425.00	4 315.00	3 180.00	1 100.00	1 565.00	83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING PONDS						85
86	COOLING TOWERS						86
87	COMBINATIONS [21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1952 1960	1942 1956	1930 1941	1956	1970	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	20.00	20.00	15.00	25.00	11.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	785.00	817.00	590.00	254.00	553.50	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)					553.50	91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,981.00	1,113.40	913.90	1,562.70	4,248.00	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)					742.00	94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)						95
96	COST OF CHEMICAL ADDITIVES ($1,000)	2.12	4.25	.58	.94	2.60	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)						97
98	COST OF CHEMICAL ADDITIVES ($1,000)	2.20	1.54	.27	19.25	41.97	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	EAST KENTUCKY RURAL ELECTRIC COOP.	EAST KENTUCKY RURAL ELECTRIC COOP.	EASTERN IOWA LT & PWR COOP	EL PASO ELECTRIC CO.	EL PASO ELECTRIC CO.		1
2								2
3								3
4	NAME OF PLANT	COOPER	DALE	FAIR	NEWMAN	RIO GRANDE		4
5	UTILITY-PLANT CODE	141500-0100	141500-0200	142500-0100	144500-0100	144500-0200		5
6	STATE	KENTUCKY	KENTUCKY	IOWA	TEXAS	NEW MEXICO		6
7	COUNTY	PULASKI	CLARK	MUSCATINE	EL PASO	DONA ANA		7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	105 05	102 05	069 07	133 13	133 13		8
9	PLANT CAPACITY (MW)	354.00	194.00	62.50	265.80	385.00		9
10	ANNUAL GENERATION (MWH) [3]	1,785,900	783,400	263,600	1,735,200	1,045,600		10
11	PLANT HEAT RATE (BTU/KWH) [3]	10,281	11,461	11,828	10,562	11,823		11
	AIR QUALITY CONTROL DATA							
	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	795.99	392.00	89.70				12
13	AVERAGE HEAT CONTENT (BTU/LB)	11,435	11,380	10,894				13
14	AVERAGE SULFUR CONTENT (%)	2.35	1.62	3.28				14
15	AVERAGE ASH CONTENT (%)	15.32	14.00	11.16				15
16	AVERAGE MOISTURE CONTENT (%)	5.63	7.46	12.14				16
17	OIL: CONSUMPTION (1,000 BARRELS)	2.34			19.20	444.80		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	138,600			153,522	148,296		18
19	AVERAGE SULFUR CONTENT (%)	.12			1.34	1.49		19
20	GAS: CONSUMPTION (1,000 MCF)			1,108.70	17,908.00	9,151.00		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)			1,039	1,016	1,048		21
	PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	2	4	2	3	9		22
23	- NO. OF WET BOTTOM							23
24	- NO. WITH FLY ASH REINJECTION							24
25	- NO. WITH MECHANICAL PRECIPITATORS	2	4	2				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	2						26
27	- NO. WITH COMBINATION PRECIPITATORS [4]							27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	20.00	20.00	18.00 20.96	5.00	9.00 15.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	86.00	85.00	85.00				30
31	TESTED, LOW - HIGH			74.00 76.10				31
32	ESTIMATED, LOW - HIGH		85.00	74.00 76.00				32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	98.00						33
34	TESTED, LOW - HIGH	98.00						34
35	EST., LOW - HIGH	92.00 95.00						35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38
	PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	6.19	7.00	2.10		.07		39
40	SULFUR DIOXIDE (1,000 TONS)	36.66	12.45	5.77	.09	2.22		40
41	NITROGEN OXIDES (1,000 TONS)	7.17	3.53	1.02	3.50	2.74		41
42	STACKS: - TOTAL NO.	1	2	2	3	9		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	260.00	150.00	164.00	121.00 128.00	104.00 142.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	110.71	48.00	7.90				45
46	SOLD (1,000 TONS) [11]							46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	170.00	129.56	47.60				50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	2,216.00						51
52	COMBINATION PRECIPITATORS ($1,000) [4]							52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	107.00	60.00	64.46	35.00	118.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	163.72		18.80				55
56	REVENUES FROM SALE OF ASH ($1,000)							56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	163.72		18.80				59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)							60
	WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R CUMBERLAND	R KENTUCKY	R MISSISSIPPI	W	W		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	355.00	230.00	50.00	4.63	4.72		62
63	AVERAGE RATE OF DISCHARGE (CFS)	351.00	227.00	50.00		1.35		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	3.05 4.00	74.00 3.00	.43	3.60	3.37		64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG OEC	JUN JAN	AUG JAN				65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	90.00	77.00	88.00 36.00				66
67	AT OUTFALL, SUMMER - WINTER	90.00 63.00	77.00 48.00	98.00 48.00				67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	351.00		30,000.00				68
69	- WINTER	351.00		44,000.00				69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [16]		C	H				70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.47	.56	.09	8.15 .48	14.65 1.46		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.02		6.73	3.88	4.60		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	4.08	5.48					73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	7.85	10.95					74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.10	1.00	30.60	3.25	9.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES YES	YES YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	OT	ST	ST	ST	ST		77
78	RECEIVING WATER BODY	R CUMBERLAND	R KENTUCKY	R MISSISSIPPI				78
79	POND DISCHARGE [19]: PH, BOILER BLOWDOWN - ASH SETTLING		7.40	12.00	8.50			79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			28.00	5.00			80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							81
82	- ASH SETTLING		260,800.00	2,579.33				82
	COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	2 354.00		2 62.50				83
84	ONCE THROUGH COOLING (SALINE)							84
85	COOLING PONDS(S)							85
86	COOLING TOWER(S)				3 265.80	8 401.50		86
87	COMBINATIONS [21]		4 194.00					87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1963 1968	1958	1959 1967	1960 1966	1951 1972		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	10.00	15.00	12.20 26.90	21.10 28.20	13.40 30.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	355.00	330.40	109.00	257.00	536.00		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	355.00	333.00	109.00				91
	CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	4,014.00	1,538.00	140.00				92
93	COOLING PONDS ($1,000)							93
94	COOLING TOWERS ($1,000)				753.00	1,232.00		94
	ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)			12.85	145.20	164.20		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	.09		2.63	21.80	17.40		96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)			7.24	16.50	15.20		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	13.14	13.00	4.06	10.00	11.00		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	ELECTRIC ENERGY INC.	EMPIRE DIST. ELECTRIC CO.	EMPIRE DIST. ELECTRIC CO.	FITCHBURG GAS & ELECTRIC CO	FLORIDA POWER CORP.	1
2							2
3							3
4	NAME OF PLANT	JOPPA	RIVERTON	ASBURY	FITCHBURG	AVON PARK	4
5	UTILITY-PLANT CODE	145500-0100	149000-0300	149000-0400	164000-0100	165500-0100	5
6	STATE	ILLINOIS	KANSAS	MISSOURI	MASSACHUSETTS	FLORIDA	6
7	COUNTY	MASSAC	CHEROKEE	JASPER	WORCESTER	HIGHLANDS	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	072 05	098 11	139 11	118 01	051 03	8
9	PLANT CAPACITY (MW)	1,100.25	159.00	212.80	35.95	61.00	9
10	ANNUAL GENERATION (MWH)[3]	7,570,800	505,800	1,259,700	95,473	292,200	10
11	PLANT HEAT RATE (BTU/KWH)[3]	10,042	13,237	10,793	14,914	12,649	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	3,322.00	48.79	660.78				12
13	AVERAGE HEAT CONTENT (BTU/LB)	11,439	13,013	10,238				13
14	AVERAGE SULFUR CONTENT (%)	2.38	3.90	4.43				14
15	AVERAGE ASH CONTENT (%)	10.21	12.60	24.13				15
16	AVERAGE MOISTURE CONTENT (%)	10.94	2.80	7.37				16
17	OIL: CONSUMPTION (1,000 BARRELS)	9.00	24.91	3.79	131.03	354.20		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	138,045	156,776	145,600	146,661	148,726		18
19	AVERAGE SULFUR CONTENT (%)	.10	2.30	.10	.93	2.37		19
20	GAS: CONSUMPTION (1,000 MCF)		5,187.00		615.39	1,405.10		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,033		1,003	1,056		21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	6	20	1	2	3		22
23	- NO. OF WET BOTTOM			1				23
24	- NO. WITH FLY ASH REINJECTION							24
25	- NO. WITH MECHANICAL PRECIPITATORS	6	2		1			25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	6		1				26
27	- NO. WITH COMBINATION PRECIPITATORS[4]							27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	18.00	17.00 35.00	13.00	18.00 20.00	15.00 20.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00	85.00		44.00			30
31	TESTED, LOW - HIGH		85.10 85.30					31
32	ESTIMATED, LOW - HIGH		86.00					32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	98.60		98.20				33
34	TESTED, LOW - HIGH	98.70 98.90						34
35	EST., LOW - HIGH	98.60		92.00				35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	4.04	.74	1.28	.02	.06		39
40	SULFUR DIOXIDE (1,000 TONS)	154.97	3.92	57.38	.41	2.82		40
41	NITROGEN OXIDES (1,000 TONS)	29.92	1.51	18.18	.41	1.05		41
42	STACKS: - TOTAL NO.	3	4	1	2	3		42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	250.00	120.00 250.00	400.00	116.00 129.50	149.00 196.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]							44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	339.20	5.38	161.80				45
46	SOLD (1,000 TONS)[11]	1.10						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	920.00	145.91					50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	11,784.00		561.96				51
52	COMBINATION PRECIPITATORS ($1,000)[4]							52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	756.00	143.87	401.15	46.03	48.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	66.90	10.60	70.00				55
56	REVENUES FROM SALE OF ASH ($1,000)	.80						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	66.90	10.60	70.00		.60		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	.80						60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R OHIO	R SPRING	W	M	L LOTELA		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	543.76	230.77			166.00		62
63	AVERAGE RATE OF DISCHARGE (CFS)	543.76	227.11			166.00		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	4.68 4.70	3.66			1.43		64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG JAN	AUG JAN			AUG JAN		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	88.00 40.00	87.30 50.50			89.00 74.00		66
67	AT OUTFALL, SUMMER - WINTER	112.00 70.00	94.30 55.50		130.00 130.00	98.00 83.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	139,100.00	344.00					68
69	- WINTER	457,800.00	5,350.00					69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D[16]	C	H					70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	11.60	.17	.41	2.00	.23		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	78.99	.23	.01	5.00 6.60	.03		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		14.48					73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP							74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	42.00	6.00	21.05	.30			75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES YES	YES YES	YES YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	SW	OT	PS	ST		77
78	RECEIVING WATER BODY	R OHIO	R SPRING					78
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	11.50	9.95 7.70	9.00 6.00				79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	25.00	184.00 200.00	60.00				80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN		80.65	2.00				81
82	- ASH SETTLING	432,000.00						82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY THAT USING: ONCE THROUGH COOLING (FRESH)	6 1,100.28	5 67.50			2 61.00		83
84	ONCE THROUGH COOLING (SALINE)							84
85	COOLING POND(S)							85
86	COOLING TOWER(S)			1 212.80	2 35.50			86
87	COMBINATION[20]		2 87.50					87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1953 1955	1909 1954	1970	1949 1966	1928 1952		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[21]	24.00	14.00 18.00	23.00	10.00 20.00	10.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	913.20	377.87	213.00	89.00	166.00		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,100.00	418.00			166.00		91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	9,470.00	161.24			465.00		92
93	COOLING PONDS ($1,000)							93
94	COOLING TOWERS ($1,000)		23.99	513.05	232.00			94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	80.10	11.02	40.10	18.00	.25		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	6.00	3.58	26.10	4.35			96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	80.80	18.94	15.30	2.50	8.70		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	74.40	9.24	5.10	2.20	.50		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1 NAME OF UTILITY	FLORIDA POWER CORP.	FLORIDA POWER CORP.	FLORIDA POWER CORP.	FLORIDA POWER CORP.	FLORIDA POWER CORP.	
4 NAME OF PLANT	BAYBORO	CRYSTAL RIVER	TURNER	HIGGINS	INGLIS	
5 UTILITY-PLANT CODE	165500-0200	165500-0300	165500-0400	165500-0500	165500-0600	
6 STATE	FLORIDA	FLORIDA	FLORIDA	FLORIDA	FLORIDA	
7 COUNTY	PINELLAS	CITRUS	VOLUSIA	PINELLAS	LEVY	
8 AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	052 03	052 03	048 03	052 03	052 03	
9 PLANT CAPACITY (MW)	51.30	964.30	201.60	138.00	53.80	
10 ANNUAL GENERATION (MWH)[3]	265,100	5,248,400	1,154,400	790,300	286,800	
11 PLANT HEAT RATE (BTU/KWH)[3]	14,456	9,489	11,677	11,584	16,126	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)						
13 AVERAGE HEAT CONTENT (BTU/LB)						
14 AVERAGE SULFUR CONTENT (%)						
15 AVERAGE ASH CONTENT (%)						
16 AVERAGE MOISTURE CONTENT (%)						
17 OIL: CONSUMPTION (1,000 BARRELS)	611.10	7,982.30	947.50	1,415.40	362.80	
18 AVERAGE HEAT CONTENT (BTU/GAL)	149,329	148,552	148,275	148,506	148,002	
19 AVERAGE SULFUR CONTENT (%)	2.37	2.30	2.24	2.37	2.37	
20 GAS: CONSUMPTION (1,000 MCF)			7,179.10	307.30	2,247.10	
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)			1,056	1,062	1,054	

PLANT EQUIPMENT DATA

22 BOILERS: - TOTAL NO.	3	2	5	3	5	
23 - NO. OF WET BOTTOM						
24 - NO. WITH FLY ASH REINJECTION						
25 - NO. WITH MECHANICAL PRECIPITATORS						
26 - NO. WITH ELECTROSTATIC PRECIPITATORS		1				
27 - NO. WITH COMBINATION PRECIPITATORS[4]						
28 - NO. WITH DESULFURIZATION SYSTEMS						
29 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	15.00 20.00	15.00 25.00	10.00 18.00	20.00	14.00 16.00	
30 MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
31 TESTED, LOW - HIGH						
32 ESTIMATED, LOW - HIGH						
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH		95.00				
34 TESTED, LOW - HIGH						
35 EST., LOW - HIGH						
36 DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37 TESTED, LOW - HIGH						
38 ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.10	.68	.16	.24	.06	
40 SULFUR DIOXIDE (1,000 TONS)	4.86	61.60	7.12	11.25	2.88	
41 NITROGEN OXIDES (1,000 TONS)	1.35	17.60	3.49	3.18	1.24	
42 STACKS: - TOTAL NO.	2	2	6	3	3	
43 - HEIGHT (FEET), LOWEST - HIGHEST[8]	202.00 203.00	499.00	150.00 237.00	174.00	125.00	
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	.10	.30				
45 TOTAL ASH: COLLECTED (1,000 TONS)[10]		.30				
46 SOLD (1,000 TONS)[11]		.30				
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
51 ELECTROSTATIC PRECIPITATORS ($1,000)		750.00				
52 COMBINATION PRECIPITATORS ($1,000)[4]						
53 DESULFURIZATION SYSTEMS ($1,000)						
54 STACKS ($1,000)	65.00	1,194.00	141.00	52.00	39.00	
55 ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		25.00				
56 REVENUES FROM SALE OF ASH ($1,000)		160.00				
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		25.00				
60 TOTAL BYPRODUCT SALES REVENUES ($1,000)		160.00				

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	B TAMPA	O GULF OF MEXICO	L MONROE	B TAMPA	R WITHLACOOCHEE	
62 AVERAGE RATE OF WITHDRAWAL (CFS)	170.00	1,225.00	291.00	346.00	164.00	
63 AVERAGE RATE OF DISCHARGE (CFS)	170.00	1,225.00	291.00	346.00	164.00	
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.46	10.54	2.50	2.98	1.41	
65 PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG JAN	AUG JAN	AUG JAN	AUG JAN	AUG JAN	
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	90.00 68.00	89.00 70.00	92.00 72.00	88.00 77.00	86.00 73.00	
67 AT OUTFALL, SUMMER - WINTER	97.00 84.00	93.00 74.00	108.00 88.00	100.00 89.00	97.00 79.00	
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER					1,400.00	
69 - WINTER					1,400.00	
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]						
T1 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.10	1.00	.63	1.05	.70	
T2 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	19.70				.05	
T3 LIME (TONS), COOLING WATER - BOILER MAKEUP		142.63				
T4 ALUM (TONS), COOLING WATER - BOILER MAKEUP						
T5 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP						
T6 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES YES	YES YES	YES YES	YES	
T7 SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	ST	ST	ST	ST	
78 RECEIVING WATER BODY						
79 POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING				5.50		
80 SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				200.00		
81 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
82 - ASH SETTLING						

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)			4 187.50		3 53.80	
84 ONCE THROUGH COOLING (SALINE)	3 51.30	2 964.30		3 138.00		
85 COOLING POND(S)						
86 COOLING TOWER(S)						
87 COMBINATIONS[21]						
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1941 1949	1966 1969	1926 1959	1951 1954	1926 1947	
89 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	10.00	10.00	10.00	10.00	10.00	
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	188.00	1,448.00	319.00	351.00	173.00	
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	188.00	1,420.00	319.00	351.00	173.00	

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTEMS ($1,000)	345.00	5,872.00	674.00	916.00	409.00	
93 COOLING PONDS ($1,000)						
94 COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

95 OPERATION AND MAINTENANCE EXPENSES ($1,000)	5.00	2.00	2.00	2.00	1.50	
96 COST OF CHEMICAL ADDITIVES ($1,000)		22.50	2.70	2.00		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION AND MAINTENANCE EXPENSES ($1,000)	10.00	80.00	18.60	15.00	10.00	
98 COST OF CHEMICAL ADDITIVES ($1,000)	7.70	59.80	7.70	3.50	2.90	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1 NAME OF UTILITY	FLORIDA POWER CORP.	FLORIDA POWER CORP.	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.	
4 NAME OF PLANT	BARTOW	SUWANNEE	CAPE CANAVERAL	CUTLER	FORT MYERS	
5 UTILITY-PLANT CODE	165500-0800	165500-0900	166500-0100	166500-0200	166500-0400	
6 STATE	FLORIDA	FLORIDA	FLORIDA	FLORIDA	FLORIDA	
7 COUNTY	PINELLAS	SUWANNEE	BREVARD	DADE	LEE	
8 AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	052 03	049 03	048 03	059 03	051 03	
9 PLANT CAPACITY (MW)	494.40	147.00	804.00	351.50	558.00	
10 ANNUAL GENERATION (MWH)[3]	3,240,900	928,900	4,605,200	1,550,000	2,833,800	
11 PLANT HEAT RATE (BTU/KWH)[3]	9,802	11,121	9,754	11,667	9,742	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)						
13 AVERAGE HEAT CONTENT (BTU/LB)						
14 AVERAGE SULFUR CONTENT (%)						
15 AVERAGE ASH CONTENT (%)						
16 AVERAGE MOISTURE CONTENT (%)						
17 OIL: CONSUMPTION (1,000 BARRELS)	4,676.60	1,402.10	4,375.00	692.00	4,594.00	
18 AVERAGE HEAT CONTENT (BTU/GAL)	148,228	148,055	145,740	145,601	145,787	
19 AVERAGE SULFUR CONTENT (%)	2.37	2.43	1.05	.94	.88	
20 GAS: CONSUMPTION (1,000 MCF)	2,520.40	1,564.60	17,639.00	13,868.00		
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,053	1,030	1,000	1,000		

PLANT EQUIPMENT DATA

22 BOILERS: - TOTAL NO.	3	3	2	4	2	
23 - NO. OF WET BOTTOM						
24 - NO. WITH FLY ASH REINJECTION			2	4	1	
25 - NO. WITH MECHANICAL PRECIPITATORS			2	4	1	
26 - NO. WITH ELECTROSTATIC PRECIPITATORS						
27 - NO. WITH COMBINATION PRECIPITATORS[4]						
28 - NO. WITH DESULFURIZATION SYSTEMS						
29 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	2.50 7.00	13.00 18.00	10.00	10.00 20.00	10.00 14.00	
30 MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			84.00	88.00	84.00	
31 TESTED, LOW - HIGH						
32 ESTIMATED, LOW - HIGH			84.00	88.00	84.00	
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH						
34 TESTED, LOW - HIGH						
35 EST., LOW - HIGH						
36 DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37 TESTED, LOW - HIGH						
38 ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.79	.24	.12	.01	.27	
40 SULFUR DIOXIDE (1,000 TONS)	37.19	11.43	15.41	2.18	13.56	
41 NITROGEN OXIDES (1,000 TONS)	10.80	3.40	13.18	4.23	10.13	
42 STACKS: - TOTAL NO.	3	3	2	3	2	
43 - HEIGHT (FEET), LOWEST - HIGHEST[8]	300.00	110.00 135.00	397.00	150.00	302.00 407.00	
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	.60					
45 TOTAL ASH: COLLECTED (1,000 TONS)[10]	.50		.10			
46 SOLD (1,000 TONS)[11]	.50		.10			
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			366.10	309.60		
51 ELECTROSTATIC PRECIPITATORS ($1,000)						
52 COMBINATION PRECIPITATORS ($1,000)[4]						
53 DESULFURIZATION SYSTEMS ($1,000)						
54 STACKS ($1,000)	480.00	71.00	839.60	195.90	188.30	
55 ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	4.00		52.30	12.10	49.00	
56 REVENUES FROM SALE OF ASH ($1,000)	50.90		9.60		3.30	
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	4.00		52.30	12.10	49.00	
60 TOTAL BYPRODUCT SALES REVENUES ($1,000)	50.90		9.60		3.30	

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	B TAMPA	R SUWANNEE	R INDIAN	B BISCAYNE	R CALOOSAHATCHEE	
62 AVERAGE RATE OF WITHDRAWAL (CFS)	792.00	249.00	1,145.11	371.00	807.02	
63 AVERAGE RATE OF DISCHARGE (CFS)	792.00	249.00	1,145.11	371.00	807.02	
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	6.81	2.14	9.85	3.19	6.94	
65 PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG JAN	AUG JAN	SEP FEB	SEP FEB	SEP FEB	
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	90.00 73.00	80.00 62.00	91.00 68.00	93.00 80.00	90.00 72.00	
67 AT OUTFALL, SUMMER - WINTER	99.00 79.00	90.00 74.00	104.50 82.50	110.00 95.00	104.50 85.00	
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		6,429.00			2,603.00	
69 - WINTER		6,429.00			592.00	
70 FREQUENCY OF TEMPERATURE MONITORING: C, N, D, O[16]						
71 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.65	.11	.50	.48	.28	
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.08	.03	98.52		255.66	
73 LIME (TONS), COOLING WATER - BOILER MAKEUP			.07	36.94	48.08	
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP		2.06	9.25		9.35	
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP			85.00 2.34	9.65 .67	22.93 2.25	
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES YES	YES YES	YES YES	
77 SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[16]	ST	ST	ST	ST	ST	
78 RECEIVING WATER BODY						
79 POND DISCHARGE[17] PH, BOILER BLOWDOWN - ASH SETTLING	5.50	5.50	8.00	7.50	7.50	
80 SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	200.00	200.00				
81 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN		.10				
82 - ASH SETTLING			4,690.00	673.00	1,500.00	

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (MW) USING[18]: ONCE THROUGH COOLING (FRESH)		3 147.00			2 558.30	
84 ONCE THROUGH COOLING (SALINE)	3 494.40		2 804.10	4 346.25		
85 COOLING PONDS						
86 COOLING TOWERS						
87 COMBINATIONS[21]						
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1958 1963	1953 1956	1965 1969	1949 1955	1958 1969	
89 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	10.00	10.00	14.10	14.90 18.10	11.20 14.10	
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	809.00	268.00	1,226.00	484.30	868.00	
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	869.00	268.00	1,280.00	504.50	906.00	

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTEMS ($1,000)	3,913.00	1,254.00	1,849.30	2,134.80	1,016.60	
93 COOLING PONDS ($1,000)						
94 COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

95 OPERATION AND MAINTENANCE EXPENSES ($1,000)	1.00		15.60	23.30	26.80	
96 COST OF CHEMICAL ADDITIVES ($1,000)	30.20		13.30	3.20	9.90	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION AND MAINTENANCE EXPENSES ($1,000)	20.00	20.00	28.20	20.90	38.80	
98 COST OF CHEMICAL ADDITIVES ($1,000)	17.20	4.50	11.60	7.40	28.20	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.	
NAME OF PLANT	LAUDERDALE	MIAMI	PORT EVERGLADES	PALATKA	RIVIERA	
UTILITY-PLANT CODE	166500-0500	166500-0600	166500-0900	166500-1000	166500-1100	
STATE	FLORIDA	FLORIDA	FLORIDA	FLORIDA	FLORIDA	
COUNTY	BROWARD	DADE	BROWARD	PUTNAM	PALM BEACH	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	050 03	050 03	050 03	088 03	090 03	
PLANT CAPACITY (MW)	312.50	46.00	1,255.00	109.00	740.00	
ANNUAL GENERATION (MWH)[3]	1,678,200	90,500	7,322,300	556,900	3,909,600	
PLANT HEAT RATE (BTU/KWH)[3]	10,418	14,217	10,018	11,511	10,302	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT (%)						
OIL: CONSUMPTION (1,000 BARRELS)	2,192.70	144.70	7,557.00	713.00	4,102.00	
AVERAGE HEAT CONTENT (BTU/GAL)	145,831	144,870	145,333	145,073	148,083	
AVERAGE SULFUR CONTENT (%)	.95	.88	.95	.92	.94	
GAS: CONSUMPTION (1,000 MCF)	4,079.50	406.00	27,220.00	2,065.00	15,111.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,000	1,000	1,000	1,000	1,000	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	2	4	2	5	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION		2	4		5	
- NO. WITH MECHANICAL PRECIPITATORS		2	4		5	
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%, LOWEST BOILER - HIGHEST BOILER)[5]	14.00	15.00	10.00	10.00	10.00 15.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		88.00	85.00 88.00		78.50 88.00	
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH		88.00	85.00 88.00		78.50 88.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.37		.17	.12	.09	
SULFUR OXIDE (1,000 TONS)	6.99	.43	24.09	2.20	12.94	
NITROGEN OXIDES (1,000 TONS)	5.63	.40	21.97	1.97	11.99	
STACKS: - TOTAL NO.	2	2	4	1	4	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	151.00	151.00	343.00 344.00	150.00	150.00 298.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]			.10			
TOTAL ASH: COLLECTED (1,000 TONS)[10]			.10	.30	.20	
SOLD (1,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		42.20	767.90		325.60	
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)		40.40	1,347.50	35.20	458.40	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	20.90	.80	67.30	13.50	25.00	
REVENUES FROM SALE OF ASH ($1,000)	1.00				1.70	
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	20.90	.80	67.30	13.50	25.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)	1.00				1.70	

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O OANIA CANAL	R MIAMI	L MABLE	R ST. JOHN'S	L WORTH	
AVERAGE RATE OF WITHDRAWAL (CFS)	485.00	27.00	1,845.00	161.90	952.70	
AVERAGE RATE OF DISCHARGE (CFS)	485.00	27.00	1,845.00	161.90	952.70	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	6.12	23	15.97	1.39	8.29	
PEAK LOAD MONTH : SUMMER - WINTER[15]	SEP FEB	SEP FEB	SEP FEB	SEP FEB	SEP FEB	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	93.00 74.00	83.00 72.00	86.00 77.00	87.00 65.00	87.00 74.00	
AT OUTFALL, SUMMER - WINTER	106.00 84.00	106.00 94.00	101.00 89.00	105.00 80.00	105.00 90.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	444.00	444.00				
- WINTER		101.00				
FREQUENCY OF TEMPERATURE MONITORING: C, M, O, O[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.22	.36	1.49	.38	.54	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	67.62		471.85		152.00	
LIME (TONS), COOLING WATER - BOILER MAKEUP	32.97			.59		
ALUM (TONS), COOLING WATER - BOILER MAKEUP	1.42			.07		
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	17.11 1.09	1.03	15.12 1.02	7.05	11.84 .77	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[17]	ST	PS	ST	ST	ST	
RECEIVING WATER BODY						
POND DISCHARGE[18]: PH, BOILER BLOWDOWN - ASH SETTLING	7.50		7.50		7.50	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING	250.00		1,600.00		400.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[19]: ONCE THROUGH COOLING (FRESH)	2 312.50			2 109.50		
ONCE THROUGH COOLING (SALINE)		1 46.00	4 1,254.60		4 739.59	
COOLING PONDS						
COOLING TOWERS						
COMBINATION[20]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1957 1958	1948	1960 1965	1951 1956	1948 1963	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[21]	13.20	19.20	13.10 14.10	13.30 18.60	10.30 17.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	516.00	71.75	1,940.00	186.00	1,124.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	532.00	81.30	1,994.00	200.00	1,200.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)		847.60	5,170.60	620.30	5,093.70
COOLING PONDS ($1,000)					
COOLING TOWERS ($1,000)					

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	15.00	9.90	61.30	17.80	137.90
COST OF CHEMICAL ADDITIVES ($1,000)	2.40	.50	2.00	1.30	1.80

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	34.10	8.10	83.90	22.00	30.90
COST OF CHEMICAL ADDITIVES ($1,000)	9.90	.40	37.70	1.60	12.60

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.	CITY OF FORT PIERCE	FRANKFORT CITY LT & PWR	FREMONT DEPT OF UTILS	1
4	NAME OF PLANT	SANFORD NEW	TURKEY POINT	FORT PIERCE	FRANKFORT	WRIGHT	4
5	UTILITY-PLANT CODE	166500-1200	166500-1300	169500-0100	171500-0100	174500-0100	5
6	STATE	FLORIDA	FLORIDA	FLORIDA	INDIANA	NEBRASKA	6
7	COUNTY	VOLUSIA	DADE	SAINT LUCIE	CLINTON	DOUGE	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	048 03	050 03	050 03	084 05	146 10	8
9	PLANT CAPACITY (MW)	1,028.00	2,324.00	67.50	32.50	47.00	9
10	ANNUAL GENERATION (MWH)[3]	2,855,400	8,991,900	232,900	107,100	181,200	10
11	PLANT HEAT RATE (BTU/KWH)[3]	10,103	11,160	14,113	19,381	12,944	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)				77.50	25.40	12
13	AVERAGE HEAT CONTENT (BTU/LB)				11,300	11,155	13
14	AVERAGE SULFUR CONTENT (%)				3.00	1.75	14
15	AVERAGE ASH CONTENT (%)				10.00	8.66	15
16	AVERAGE MOISTURE CONTENT (%)				10.00	12.50	16
17	OIL: CONSUMPTION (1,000 BARRELS)	4,062.00	5,647.00	333.43	15.71		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	145,185	144,935	147,765	120,000		18
19	AVERAGE SULFUR CONTENT (%)	.88	.92	1.84	.10		19
20	GAS: CONSUMPTION (1,000 MCF)	4,105.00	8,848.00	1,699.49	244.06	1,778.76	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,000	1,000	1,053	1,000	1,000	21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	3	2	4	3	2	22
23	- NO. OF WET BOTTOM					2	23
24	- NO. WITH FLY ASH REINJECTION	2	2				24
25	- NO. WITH MECHANICAL PRECIPITATORS	2	2	2	3	2	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS						26
27	- NO. WITH COMBINATION PRECIPITATORS[4]						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	10.00 14.00	10.00	12.00 15.00		20.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	84.00	84.00	86.00 91.00	86.00 94.00	80.00	30
31	TESTED, LOW - HIGH			86.00 91.00			31
32	ESTIMATED, LOW - HIGH	84.00	84.00		80.00 84.00	80.00	32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH						33
34	TESTED, LOW - HIGH						34
35	EST., LOW - HIGH						35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.19	.15	.01	.28	.29	39
40	SULFUR DIOXIDE (1,000 TONS)	11.99	17.43	1.14	.05	.87	40
41	NITROGEN OXIDES (1,000 TONS)	9.76	14.18	.41	.66	.73	41
42	STACKS: - TOTAL NO.	3	2	4	3	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	302.00 400.00	400.00	148.00	120.00	220.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]		.10				44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	.10	.20	.03		1.73	45
46	SOLD (1,000 TONS)[11]		.20				46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	600.00					50
51	ELECTROSTATIC PRECIPITATORS ($1,000)						51
52	COMBINATION PRECIPITATORS ($1,000)[4]						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	1,462.30		37.00			54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	46.20	39.20				55
56	REVENUES FROM SALE OF ASH ($1,000)	3.00	21.80				56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	46.20	39.20				59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	3.00	21.80				60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R ST JOHN'S	O CARO SOUND	R INDIAN	M	W	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	209.00		174.62		25.60	62
63	AVERAGE RATE OF DISCHARGE (CFS)	209.00		173.12		25.60	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]			1.50 1.50		.22	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	SEP FEB	SEP FEB	SEP OEC	AUG JAN		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	86.00 64.00	92.00 84.00	85.00 66.00	88.00 88.00	56.00 56.00	66
67	AT OUTFALL, SUMMER - WINTER	99.00 75.00	105.00 96.00	98.00 81.00	106.00 98.00	86.00 86.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER					15000 GPM	68
69	- WINTER					10000 GPM	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OT[16]	H	C	H	H	H	70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	3.41	9.76	.26		.01	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKUP	456.46	463.30	23.80		7.58	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	106.50	146.15				73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	2.61					74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	6.52 1.56	24.40	22.00	4.00	5.00	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	ST			PS	77
78	RECEIVING WATER BODY					R ELKHORN	78
79	POND DISCHARGE[19] PH, BOILER BLOWDOWN - ASH SETTLING	9.70 7.60	7.50			12.60	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					47.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	27,300.00					81
82	- ASH SETTLING	273,000.00	800.00			200.00	82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	1 156.35				2 47.00	83
84	ONCE THROUGH COOLING (SALINE)			4 62.00			84
85	COOLING PONDS(S)	2 872.20	4 2,324.04				85
86	COOLING TOWERS(S)				3 32.50		86
87	COMBINATIONS[21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1959 1973	1973	1948 1964	1946 1962	1957 1963	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	11.40 15.30	14.10 16.05	8.20 8.90	85.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	807.20	4,006.00	242.00		21.30	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	266.00	2,790.00	242.00			91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	720.90				149.40	92
93	COOLING PONDS ($1,000)	5,699.00					93
94	COOLING TOWERS ($1,000)						94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	82.60	67.30				95
96	COST OF CHEMICAL ADDITIVES ($1,000)	.90	4.00	2.80	7.97	2.90	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	115.50	27.10				97
98	COST OF CHEMICAL ADDITIVES ($1,000)	68.30	126.70	4.70	21.90	4.13	90

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	GAINESVILLE, CITY OF	GAINESVILLE, CITY OF	GARLAND MUNICIPAL UTILITIES	GARLAND MUNICIPAL UTILITIES	GEORGIA POWER CO.	1
2							2
3							3
4	NAME OF PLANT	KELLY	DEERHAVEN	NEWMAN	OLINGER	ARKWRIGHT	4
5	UTILITY-PLANT CODE	176000-0100	176000-0200	177500-0100	177500-0300	179000-0100	5
6	STATE	FLORIDA	FLORIDA	TEXAS	TEXAS	GEORGIA	6
7	COUNTY	ALACHUA	ALACHUA	DALLAS	COLLIN	BIBB	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	049 03	049 05	215 12	215 12	054 05	8
9	PLANT CAPACITY (MW)	102.00	81.00	96.50	188.64	181.00	9
10	ANNUAL GENERATION (MWH)[3]	564,836	276,973	221,000	705,500	1,032,800	10
11	PLANT HEAT RATE (BTU/KWH)[3]	12,425	11,636	10,403	10,903	12,278	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)					408.00	12
13	AVERAGE HEAT CONTENT (BTU/LB)					11,904	13
14	AVERAGE SULFUR CONTENT (%)					2.00	14
15	AVERAGE ASH CONTENT (%)					12.77	15
16	AVERAGE MOISTURE CONTENT (%)					6.09	16
17	OIL: CONSUMPTION (1,000 BARRELS)	187.10	179.50	82.47	27.53		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	148,400	148,475	145,584	144,101		18
19	AVERAGE SULFUR CONTENT (%)	2.56	2.28	.37	.10		19
20	GAS: CONSUMPTION (1,000 MCF)	5,199.90	1,995.70	1,752.76	7,389.14	5,626.00	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,052	1,054	1,026	1,015	1,050	21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	5	1	5	2	4	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS					5	26
27	- NO. WITH COMBINATION PRECIPITATORS[4]						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	10.00 14.00	7.00	7.00 8.00	8.00	22.00 85.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH					90.00	33
34	TESTED, LOW - HIGH					82.00 99.70	34
35	EST., LOW - HIGH					80.00 99.00	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.03	.03	.01		4.63	39
40	SULFUR DIOXIDE (1,000 TONS)	1.48	1.37	.10	.01	16.11	40
41	NITROGEN OXIDES (1,000 TONS)	1.04	.78	.52	1.50	4.29	41
42	STACKS: - TOTAL NO.	3	1	5	2	4	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	120.00 200.00	300.00	60.00 70.00	81.00 128.60	144.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]					49.00	45
46	SOLD (1,000 TONS)[11]					6.10	46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)						51
52	COMBINATION PRECIPITATORS ($1,000)[4]						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	180.00	202.35	66.00	65.40		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)					134.00	55
56	REVENUES FROM SALE OF ASH ($1,000)					.60	56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]					134.00	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)					.60	60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	M	OW GROUND WATER	M	L LAVON	R MULGEE	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)		.49		274.33	506.50	62
63	AVERAGE RATE OF DISCHARGE (CFS)		.68		274.12	305.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]		.14	.57	2.36 1.25	2.64 1.50	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]			AUG JAN	AUG JAN	JUL DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER				88.00 58.00	85.00 51.00	66
67	AT OUTFALL, SUMMER - WINTER				101.00 66.00	101.00 66.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER				229.00	3,400.00	68
69	- WINTER				45.00	3,700.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]		O				70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	3.00	.15	.11	.05	.04	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	58.29	2.25	5.75	9.48	.07	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP				1.25		73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		2.00	3.29	3.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES YES	YES YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	ST	ST	ST	ST	77
78	RECEIVING WATER BODY		O GROUND WTR				78
79	POND DISCHARGE[19] PH, BOILER BLOWDOWN - ASH SETTLING					7.80	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					65.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING					7,148.52	82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)				2 188.64	4 181.00	83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING PONDS						85
86	COOLING TOWERS	5 100.00	1 88.00	5 96.50			86
87	COMBINATIONS[21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1948 1965	1971	1957 1965	12.00 17.00	1941 1948	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	15.20 17.50	17.00	12.00 14.50		15.70	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	220.91	124.77	207.10	290.00	550.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)				503.20	350.00	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)				485.00		92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)	379.49	368.85	407.80			94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)						95
96	COST OF CHEMICAL ADDITIVES ($1,000)	11.70	17.70	24.60 7.40	56.60 .29	21.00 3.00	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)			17.50	12.50	52.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	4.00	3.30	2.70	1.30	2.00	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	GEORGIA POWER CO.	GEORGIA POWER CO.	GEORGIA POWER CO.	GEORGIA POWER CO.	GEORGIA POWER CO.	1
2							2
3							3
4	NAME OF PLANT	ATKINSON	HAMMOND	HARLLEE BRANCH	MCDONOUGH	MCMANUS	4
5	UTILITY-PLANT CODE	179000-0200	179000-0900	179000-1000	179000-1100	179000-1500	5
6	STATE	GEORGIA	GEORGIA	GEORGIA	GEORGIA	GEORGIA	6
7	COUNTY	C088	FLOYD	PUTNAM	C088	GLYNN	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	056 03	055 03	054 03	056 03	049 03	8
9	PLANT CAPACITY (MW)	258.00	953.00	1,746.00	530.00	144.00	9
10	ANNUAL GENERATION (MWH)[3]	1,236,800	4,211,300	6,410,500	3,297,900	738,900	10
11	PLANT HEAT RATE (BTU/KWH)[3]	14,303	9,637	10,185	9,413	10,642	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	136.00	1,928.00	2,631.00	1,120.00	17.00	12
13	AVERAGE HEAT CONTENT (BTU/LB)	12,130	11,329	12,156	11,887	11,386	13
14	AVERAGE SULFUR CONTENT (%)	1.05	3.25	.94	1.05	1.77	14
15	AVERAGE ASH CONTENT (%)	12.57	9.49	10.53	12.99	14.77	15
16	AVERAGE MOISTURE CONTENT (%)	5.73	11.83	7.08	6.49	8.07	16
17	OIL: CONSUMPTION (1,000 BARRELS)	248.00	10.00			1,217.00	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	140,500	140,000			148,257	18
19	AVERAGE SULFUR CONTENT (%)	.10	.10			2.23	19
20	GAS: CONSUMPTION (1,000 MCF)	13,239.00			4,985.00		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,030			1,030		21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	5	4	4	2	2	22
23	- NO. OF WET BOTTOM		4	4	2		23
24	- NO. WITH FLY ASH REINJECTION					2	24
25	- NO. WITH MECHANICAL PRECIPITATORS		1				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	5	4	4	2	2	26
27	- NO. WITH COMBINATION PRECIPITATORS[4]						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]		18.00 23.00	18.00 20.00	18.00	17.00 19.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		84.00				30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	90.00	98.20 98.70	98.00 98.50	98.00	98.00	33
34	TESTED, LOW - HIGH	59.00 87.00	98.00		99.30 99.50	99.13 99.32	34
35	EST., LOW - HIGH	60.00 85.00	97.00 98.00	95.00 98.00		98.00	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	3.19	2.58	6.14	.57	.09	39
40	SULFUR DIOXIDE (1,000 TONS)	2.88	122.81	48.51	23.05	9.69	40
41	NITROGEN OXIDES (1,000 TONS)	4.35	28.92	39.50	17.77	2.81	41
42	STACKS: - TOTAL NO.	5	3	4	4	1	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	180.00 200.00	500.00	300.00 500.00	229.00	185.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	17.60	180.10	269.70	146.00	2.10	45
46	SOLD (1,000 TONS)[11]				72.30		46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)		2,567.00				51
52	COMBINATION PRECIPITATORS ($1,000)[4]						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)		1,280.00	1,083.00			54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	24.00	1,122.00	303.00	340.00	105.00	55
56	REVENUES FROM SALE OF ASH ($1,000)				18.00	3.00	56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	24.00	1,122.00	303.00	340.00	105.00	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)				18.00	3.00	60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R CHATTAHOOCHEE	R COOSA	L SINCLAIR	R CHATTAHOOCHEE	R TURTLE	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	668.00	670.00	1,113.00	608.00	225.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	668.00	670.00	1,113.00	608.00	225.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	5.74	5.76	9.57	5.23	1.94	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL OEC	JUL OEC	JUL OEC	JUL OEC	JUL OEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	72.00 43.00	78.00 50.00	86.00 52.00	72.00 43.00	89.00 53.00	66
67	AT OUTFALL, SUMMER - WINTER	86.00 68.00	93.00 68.00	98.00 80.00	86.00 68.00	110.00 78.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		4,396.00	1,129.00			68
69	- WINTER		6,690.00	800.00			69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.47	.06			.05	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.62	474.93	7.61		.15	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP					9.25	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		180.00	134.66			74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	64.00	4.00	16.00	88.00	36.00	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	ST	SW	OT	ST	77
78	RECEIVING WATER BODY						78
79	POND DISCHARGE[19] PH, BOILER BLOWDOWN - ASH SETTLING		10.00	9.40	4.60	7.50	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			15.00	8.00	17.20	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING		500,000.00	440,200.00	172,150.00		82
	COOLING FACILITY DATA						
83	NO. OF UNITS WITH CAPACITY THAT USES: ONCE THROUGH COOLING (FRESH)	4 240.00	3 375.00	4 1,746.00	2 490.00		83
84	ONCE THROUGH COOLING (SALINE)		1 578.00			2 144.00	84
85	COOLING POND(S)						85
86	COOLING TOWER(S)						86
87	COMBINATION[20]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1930 1948	1954 1970	1965 1969	1963 1964	1950 1959	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[21]		10.00 26.00	16.70 18.50	17.00	14.50 14.90	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)		853.00	1,763.00	608.00	216.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		699.00	1,763.00	608.00	216.00	91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)				811.50		92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)						94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	55.00	133.00	20.00	53.00	32.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	10.00	1.00	2.00	15.00		96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	48.00	173.00	259.00	123.00	35.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	9.00	58.00	42.00	11.00		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	GEORGIA POWER CO.	GEORGIA POWER CO.	GEORGIA POWER CO.	GLENDALE PUBLIC SERVICE DEPT.	GRAND ISLAND WTR & LIGHT DEPT
4	NAME OF PLANT	MITCHELL	YATES	BOWEN	GLENDALE	LIGHT DEPT.
5	UTILITY-PLANT CODE	179000-2500	179000-2600	179000-2800	182500-0100	BURDICK
6	STATE	GEORGIA	GEORGIA	GEORGIA	CALIFORNIA	187300-0100
7	COUNTY	DOUGHERTY	COWETA	BARTOW	LOS ANGELES	NEBRASKA
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	059 03	056 03	015 03	024 18	149 10
9	PLANT CAPACITY (MW)	218.00	680.00	1,595.00	187.00	92.50
10	ANNUAL GENERATION (MWH)[3]	1,168,700	3,426,300	6,849,600	546,300	223,100
11	PLANT HEAT RATE (BTU/KWH)[3]	11,133	10,532	9,410	12,108	16,832

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	565.00	1,376.00	2,760.00			
13	AVERAGE HEAT CONTENT (BTU/LB)	11,519	12,284	11,444			
14	AVERAGE SULFUR CONTENT (%)	1.42	2.22	3.13			
15	AVERAGE ASH CONTENT (%)	15.01	9.25	10.73			
16	AVERAGE MOISTURE CONTENT (%)	6.46	7.25	9.82			
17	OIL: CONSUMPTION (1,000 BARRELS)	3.70			763.00	40.35	
18	AVERAGE HEAT CONTENT (BTU/GAL)	140,000			147,895	150,000	
19	AVERAGE SULFUR CONTENT (%)	.10			.59	.90	
20	GAS: CONSUMPTION (1,000 MCF)		2,762.00		1,776.00	3,720.60	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,029		1,056	941	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	3	5	2	6	3	
23	- NO. OF WET BOTTOM		5				
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS		2				
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	3	3	2			
27	- NO. WITH COMBINATION PRECIPITATORS[4]						
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	18.00 20.00	20.00 78.00	18.00	8.00 15.00	7.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH						
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	98.00	98.30 98.60	98.00			
34	TESTED, LOW - HIGH	78.00 94.00		98.12			
35	EST., LOW - HIGH	85.00 96.00		98.50			
36	LOW - HIGH						
37	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
38	TESTED, LOW - HIGH						
	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	4.76	4.97	3.78	.13	.01	
40	SULFUR OXIDE (1,000 TONS)	15.70	59.92	169.38	1.53	.12	
41	NITROGEN OXIDES (1,000 TONS)	5.08	21.15	24.85	1.70	.81	
42	STACKS: - TOTAL NO.	2	3	1	6	3	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	115.00 211.00	175.00	1,000.00	60.00 100.00	111.50	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	80.00	129.30	299.00			
46	SOLD (1,000 TONS)[11]			32.00			
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			2,308.00			
51	ELECTROSTATIC PRECIPITATORS ($1,000)						
52	COMBINATION PRECIPITATORS ($1,000)[4]						
53	DESULFURIZATION SYSTEMS ($1,000)					57.00	
54	STACKS ($1,000)			3,706.00			
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	231.00	175.00	252.00			
56	REVENUES FROM SALE OF ASH ($1,000)			9.00			
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	236.00	175.00	271.00			
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)			9.00			

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R FLINT	R CHATTAHOOCHEE	R ETOWAH	W	W	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	310.00	2,050.00	62.00		11.23	
63	AVERAGE RATE OF DISCHARGE (CFS)	307.00	2,050.00	16.00		11.23	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	3.00	17.80	46.00			
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL OEC	JUL OEC	JUL OEC			
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	84.00 44.00	92.00 45.00				
67	AT OUTFALL, SUMMER - WINTER	94.00 53.00	110.00 64.00				
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						
69	- WINTER						
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OT[16]				C	H	
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.11	.12		4.70 .11	.01	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.27	7.45	651.67	11.03	23.81	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP			124.55			
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		26.11	6.00	16.23	2.19	
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	5.00	24.00	55.00	YES	YES	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]		ST	OT			
78	RECEIVING WATER BODY			O ASH POND			
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	8.10	8.00	9.00			
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	26.00	20.00	25.00			
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
82	- ASH SETTLING	109,000.00	65,000.00				

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	3 217.00	5 678.00			2 36.50	
84	ONCE THROUGH COOLING (SALINE)						
85	COOLING POND(S)						
86	COOLING TOWER(S)			2 1,595.00	5 164.00	1 54.00	
87	COMBINATION[21]						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1948 1964	1950 1958	1971 1972	1941 1964	1957 1972	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	10.00 16.00	15.00	25.00	15.00	17.00 35.00	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	312.00	875.00	1,150.00	286.00	146.30	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	312.00	875.00				

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)						
93	COOLING PONDS ($1,000)						
94	COOLING TOWERS ($1,000)			7,670.00	1,125.00	300.00	

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	14.00	280.00	31.00		30.00	
96	COST OF CHEMICAL ADDITIVES ($1,000)	1.00	4.00		31.00	11.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	47.00	125.00	309.00		15.00	
98	COST OF CHEMICAL ADDITIVES ($1,000)	1.00	5.00		3.00	4.00	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	1	GRAND RIVER DAM AUTHORITY	GREENVILLE, CITY OF ELEC DEPT	GREENWOOD UTILS	GULF POWER CO.	GULF POWER CO.	1
2		2						2
3		3						3
4	NAME OF PLANT	4	CHOUTEAU	GREENVILLE	HENDERSON	CRIST	SCHOLTZ	4
5	UTILITY-PLANT CODE	5	188500-0100	191750-0100	192500-0100	195000-0100	195000-0200	5
6	STATE	6	OKLAHOMA	TEXAS	MISSISSIPPI	FLORIDA	FLORIDA	6
7	COUNTY	7	MAYES	HUNT	LEFLORE	ESCAMBIA	JACKSON	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	8	186 18	215 12	134 08	005 03	005 03	8
9	PLANT CAPACITY (MW)	9	56.25	51.50	31.50	1,229.00	98.00	9
10	ANNUAL GENERATION (MWH)[3]	10	71,400	175,631	126,722	3,975,900	505,900	10
11	PLANT HEAT RATE (BTU/KWH)[3]	11	58,550	10,630	15,085	11,191	11,899	11
	AIR QUALITY CONTROL DATA							
	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12			7.60	1,557.60	241.60	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13			12,320	11,883	12,455	13
14	AVERAGE SULFUR CONTENT (%)	14			2.42	3.11	1.41	14
15	AVERAGE ASH CONTENT (%)	15			8.06	10.92	12.55	15
16	AVERAGE MOISTURE CONTENT (%)	16			7.00	7.86	5.72	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17		25.44		237.74		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18		138,000		150,000		18
19	AVERAGE SULFUR CONTENT (%)	19		.10		2.60		19
20	GAS: CONSUMPTION (1,000 MCF)	20	4,078.50	1,649.90	1,724.00	5,905.48		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,025	1,060	1,000	1,000		21
	PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	22	6	2	2	7	2	22
23	- NO. OF WET BOTTOM	23						23
24	- NO. WITH FLY ASH REINJECTION	24			2			24
25	- NO. WITH MECHANICAL PRECIPITATORS	25			2		2	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26				4		26
27	- NO. WITH COMBINATION PRECIPITATORS[4]	27						27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	29	20.00	8.00	28.50 30.00	10.00 18.00	25.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30			90.80 92.00		84.50	30
31	TESTED, LOW - HIGH	31			90.80 92.00			31
32	ESTIMATED, LOW - HIGH	32			90.00		65.00	32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	33				98.00 98.20		33
34	TESTED, LOW - HIGH	34				93.06 94.50		34
35	EST., LOW - HIGH	35				99.30 99.70		35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	39		.12	.10	.63	9.02	39
40	SULFUR OXIDE (1,000 TONS)	40		.24	.36	97.02	6.68	40
41	NITROGEN OXIDES (1,000 TONS)	41	.80	1.83	.39	15.69	2.17	41
42	STACKS: - TOTAL NO.	42	6	2	1	4	1	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	43	150.00	78.00 96.00	187.00	125.00 450.00	150.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	44						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	45			.61	166.10	22.90	45
46	SOLD (1,000 TONS)[11]	46						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50					106.00	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51				3,865.00		51
52	COMBINATION PRECIPITATORS ($1,000)[4]	52						52
53	DESULFURIZATION SYSTEMS ($1,000)	53						53
54	STACKS ($1,000)	54	78.00	96.00	38.37	766.90	58.10	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55			3.80	643.00	55.70	55
56	REVENUES FROM SALE OF ASH ($1,000)	56						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	59			3.80	659.10	71.80	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60						60
	WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R GRAND	M	W	R ESCAMBIA	R APALACHICOLA	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	.98	75.75	15.30	416.00	196.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	.51	75.75	15.30	410.00	196.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	64	.47	.65		6.00	1.69	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	65	AUG OEC	JUL OCT	JUL JAN	AUG JAN	AUG JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	112.00 80.00	94.00 45.00	67.00 67.00	82.80 58.00	85.00 52.00	66
67	AT OUTFALL, SUMMER - WINTER	67	99.00 64.00	108.00 51.00	88.00 86.00	107.50 81.40	99.50 65.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	.51	93.58		4,370.00	18,340.00	68
69	- WINTER	69	.51	53.47		10,690.00	46,530.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D[16]	70			H	C		70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	3.92	.08	.11	1.10	1.75	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	533.82	9.65	.03	160.40	.90	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73	2.19 12.06					73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74	5.77 32.02					74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	1.30 7.53	1.76		18.00	.03	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES	YES		YES YES	YES YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[17]	77	OT	PS		ST		77
78	RECEIVING WATER BODY	78	C PRYOR					78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	79				5.10	7.00	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80				50.00	50.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81						81
82	- ASH SETTLING	82				125,134.00	168.00	82
	COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83		2 51.50	1 11.50	5 281.26	2 98.00	83
84	ONCE THROUGH COOLING (SALINE)	84						84
85	COOLING POND(S)	85	4 25.00					85
86	COOLING TOWER(S)	86	2 31.25		1 20.00	1 578.00		86
87	COMBINATION[21]	87				1 370.00		87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1942 1950	1965 1969	1959 1967	1945 1973	1953	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	89	12.00 16.00	10.00	18.00	13.00 31.00	12.40	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	75.66	93.57	77.31	1,104.00	192.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		93.50	32.75	785.00	202.00	91
	CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92				2,097.60	576.30	92
93	COOLING PONDS ($1,000)	93						93
94	COOLING TOWERS ($1,000)	94			100.00	7,024.00		94
	ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95			3.40	42.00	4.16	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96		.51		15.10	.22	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97			1.00	41.60	17.10	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98		.74	.50	19.90	1.35	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	GULF POWER CO.	GULF STATES UTILITIES CO.	GULF STATES UTILITIES CO.	GULF STATES UTILITIES CO.	GULF STATES UTILITIES CO.	
4	NAME OF PLANT	SMITH	LOUISIANA #1	LOUISIANA #2	NECHES	NELSON	
5	UTILITY-PLANT CODE	195000-0300	195500-0100	195500-0200	195500-0300	195500-0400	
6	STATE	FLORIDA	LOUISIANA	LOUISIANA	TEXAS	LOUISIANA	
7	COUNTY	BAY	EAST BATON ROUGE	EAST BATON ROUGE	JEFFERSON	CALCASIEU	
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	005 03	106 08	106 08	106 12	106 08	
9	PLANT CAPACITY (MW)	380.00	253.00	175.00	452.27	982.27	
10	ANNUAL GENERATION (MWH)[3]	2,043,800	1,460,400	1,221,000	2,367,800	3,336,200	
11	PLANT HEAT RATE (BTU/KWH)[3]	10,074	30,878	12,414	11,226	10,614	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	893.30					
13	AVERAGE HEAT CONTENT (BTU/LB)	11,510					
14	AVERAGE SULFUR CONTENT (%)	2.84					
15	AVERAGE ASH CONTENT (%)	11.18					
16	AVERAGE MOISTURE CONTENT (%)	11.14					
17	OIL: CONSUMPTION (1,000 BARRELS)		9.64	509.52	91.20	1,754.89	
18	AVERAGE HEAT CONTENT (BTU/GAL)		154,736	154,872	144,202	134,218	
19	AVERAGE SULFUR CONTENT (%)		1.26	1.30	.11	.25	
20	GAS: CONSUMPTION (1,000 MCF)		43,550.00	11,007.00	25,713.00	23,778.00	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,086	1,076	1,012	1,066	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2	11	3	6	4	
23	- NO. OF WET BOTTOM						
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS						
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	2					
27	- NO. WITH COMBINATION PRECIPITATORS[4]						
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	18.00	10.00	10.00	15.00	7.00 10.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH						
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	98.00					
34	TESTED, LOW - HIGH						
35	EST., LOW - HIGH	99.00 98.60					
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	1.47		.09	.02	.29	
40	SULFUR DIOXIDE (1,000 TONS)	49.72	.04	2.22	.03	1.47	
41	NITROGEN OXIDES (1,000 TONS)	8.04	8.51	3.27	5.22	8.51	
42	STACKS: - TOTAL NO.	1	11	2	8	8	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	200.00 150.00	167.00	150.00 179.00	138.00 225.00	165.00 217.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	98.80					
46	SOLD (1,000 TONS)[11]						
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
51	ELECTROSTATIC PRECIPITATORS ($1,000)	589.00					
52	COMBINATION PRECIPITATORS ($1,000)[4]						
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	107.50					
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	190.80					
56	REVENUES FROM SALE OF ASH ($1,000)						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	206.90					
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	B NORTH	R MISSISSIPPI	W	R NECHES	W	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	380.00	2.04	3.90	370.70	4.20	
63	AVERAGE RATE OF DISCHARGE (CFS)	380.00	1.23	.66	366.70	1.30	
64	AVE. RATE OF CONSUMPTION (CFS). CALCULATED - REPORTED[14]		.81	3.24	2.67	2.90	
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	3.27 AUG JAN	AUG NOV	AUG NOV	AUG NOV	AUG NOV	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	88.00 69.00	86.00 63.00	86.00 63.00	85.00 70.00		
67	AT OUTFALL, SUMMER - WINTER	111.00 84.00			98.00 85.00		
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		311,000.00	311,000.00	11,000.00		
69	- WINTER		362,000.00	362,000.00	11,000.00		
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]						
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.45	5.20	2.20	1.00	.44	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	53.85	1,129.99	19.39	178.80	205.50	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		1,085.90				
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.23	2.00	2.50	132.00	57.00	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES YES	YES YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[16]	ST	OT	OT	ST	ST	
78	RECEIVING WATER BODY		R MISSISSIPPI	R MISSISSIPPI	R NECHES	O FILTER BED	
79	POND DISCHARGE[17]: PH, BOILER BLOWDOWN - ASH SETTLING	7.50		9.90			
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	50.00					
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
82	- ASH SETTLING	68,000.00					

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[18]: ONCE THROUGH COOLING (FRESH)				4 225.00		
84	ONCE THROUGH COOLING (SALINE)	2 340.00					
85	COOLING PONDS(S)						
86	COOLING TOWERS(S)		3 60.00	3 175.00	2 227.28	4 982.28	
87	COMBINATIONS[21]						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1965 1967	1938 1943	1950 1953	1937 1958	1959 1970	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	16.00 19.40	19.00	13.97 14.98	11.00 12.00	19.00 20.00	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	403.00	100.26	262.90	612.40	934.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	423.00			363.60		

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,069.50			362.00		
93	COOLING PONDS ($1,000)						
94	COOLING TOWERS ($1,000)		303.00	1,864.00	2,570.00	10,217.00	

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	2.70	18.00		21.80	18.40	
96	COST OF CHEMICAL ADDITIVES ($1,000)	32.00	18.00	1.00	12.00	16.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	23.90	470.00	11.00	67.00	76.00	
98	COST OF CHEMICAL ADDITIVES ($1,000)	7.00	311.00	5.00	37.00	50.00	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	GULF STATES UTILITIES CO.	GULF STATES UTILITIES CO.	GULF STATES UTILITIES CO.	HAMILTON MUNC. ELECTRIC PLT.	HASTINGS UTILS	1
2							2
3							3
4	NAME OF PLANT	SABINE	WILLOW GLEN	LEWIS CREEK	HAMILTON	NORTH DENVER	4
5	UTILITY-PLANT CODE	195500-0500	195500-0600	195500-0700	197500-0100	200500-0100	5
6	STATE	TEXAS	LOUISIANA	TEXAS	OHIO	NEBRASKA	6
7	COUNTY	ORANGE	IBERVILLE	MONTGOMERY	BUTLER	ADAMS	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	106 12	106 08	214 12	078 05	144 10	8
9	PLANT CAPACITY (MW)	952.00	1,586.15	542.88	83.50	54.00	9
10	ANNUAL GENERATION (MWH)[3]	4,702,900	5,898,500	2,903,600	269,300	142,900	10
11	PLANT HEAT RATE (BTU/KWH)[3]	10,278	10,277	10,026	16,676	14,045	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)				109.06		12
13	AVERAGE HEAT CONTENT (BTU/LB)				12,300		13
14	AVERAGE SULFUR CONTENT (%)				.90		14
15	AVERAGE ASH CONTENT (%)				10.00		15
16	AVERAGE MOISTURE CONTENT (%)				4.00		16
17	OIL: CONSUMPTION (1,000 BARRELS)		2,719.27	30.23	55.68	9.23	17
18	AVERAGE HEAT CONTENT (BTU/GAL)		143,054	137,071	135,000	150,000	18
19	AVERAGE SULFUR CONTENT (%)		.51	.17	.10	.80	19
20	GAS: CONSUMPTION (1,000 MCF)	47,879.00	41,541.00	28,578.00	1,492.31	2,073.00	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,010	1,066	1,013	1,000	940	21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	3	5	2	8	4	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION				1		24
25	- NO. WITH MECHANICAL PRECIPITATORS				4		25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS						26
27	- NO. WITH COMBINATION PRECIPITATORS[4]						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	7.00	7.00 10.00	10.00	3.00 50.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH				88.00 97.00		30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH				70.00 85.00		32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH						33
34	TESTED, LOW - HIGH						34
35	EST., LOW - HIGH						35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)		.46	.01	1.69		39
40	SULFUR DIOXIDE (1,000 TONS)		4.65	.02	1.93	.02	40
41	NITROGEN OXIDES (1,000 TONS)	9.34	14.10	5.64	1.16	.42	41
42	STACKS: - TOTAL NO.	6	8	2	5	3	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	148.50 188.00	167.00 210.00	189.00	131.00 260.00	123.00 138.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]				13.20		45
46	SOLD (1,000 TONS)[11]						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				140.00		50
51	ELECTROSTATIC PRECIPITATORS ($1,000)						51
52	COMBINATION PRECIPITATORS ($1,000)[4]						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	630.00	202.20		126.00	56.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)				14.10		55
56	REVENUES FROM SALE OF ASH ($1,000)						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]				21.60		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, S, C, W, M & O EXPL. IN FOOTNOTES)	L SABINE	R MISSISSIPPI	R SAN JACINTO	R GREAT MIAMI	W	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	935.00	581.38	2.09	68.00		62
63	AVERAGE RATE OF DISCHARGE (CFS)	926.00	581.38		67.50		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	8.04 9.00	9.00 7.32	2.09	.58 .50		64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG NOV	AUG NOV	AUG NOV	AUG JAN	JUL DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	92.00 79.00	86.25 62.70		87.00 45.00		66
67	AT OUTFALL, SUMMER - WINTER	107.00 92.00	90.50 81.20		101.00 55.00	90.00 60.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	3,985.00	311,000.00		1,948.00	13.30	68
69	- WINTER	11,000.00	362,000.00		1,948.00	.67	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]		C		C		70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	4.80	.60	.30	.15	.06	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	401.00	220.46	67.00	.25	19.00	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	275.00			17.50	1.00	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[16]	ST	ST	OT	PS	PS	77
78	RECEIVING WATER BODY		O BAYOU MANCHAC	L PRIVATE			78
79	POND DISCHARGE[17]: PH, BOILER BLOWDOWN - ASH SETTLING				10.00		79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING						82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING[18]: ONCE THROUGH COOLING (FRESH)		4 1,586.16		7 83.50	1 16.50	83
84	ONCE THROUGH COOLING (SALINE)	3 952.00					84
85	COOLING POND(S)			2 542.88		2 12.00	85
86	COOLING TOWER(S)					1 22.00	86
87	COMBINATION[19]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1962 1966	1960 1973	1970	1929 1965	1967 1967	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[20]	13.00 16.00	20.00 22.34	15.00	22.00	10.00 15.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,310.30	1,178.48	798.00	193.00	10.20	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,311.00	1,178.48		263.00	15.50	91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	649.00	9,092.00		400.00		92
93	COOLING PONDS ($1,000)			9,242.00			93
94	COOLING TOWERS ($1,000)					96.00	94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	48.40		1.80	20.00	3.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	45.00		1.00	15.00	2.40	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	79.00	90.00	33.00	14.00	4.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	53.00	119.00	18.00	11.00	2.50	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	HAWAIIAN ELECTRIC CO. INC.	HAWAIIAN ELECTRIC CO. INC.	HAWAIIAN ELECTRIC CO. INC.	HAWAIIAN ELECTRIC CO. INC.	HENDERSON PWR & LT	
NAME OF PLANT	HONOLULU	KAHE	WAIAU	KAHULUI	HENDERSON #1	
UTILITY-PLANT CODE	201500-0100	201500-0200	201500-0300	201500-0400	204500-0100	
STATE	HAWAII	HAWAII	HAWAII	HAWAII	KENTUCKY	
COUNTY	HONOLULU	HONOLULU	HONOLULU	MAUI	HENDERSON	
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	060 22	060 22	060 22	002 22	072 05	
PLANT CAPACITY (MW)	168.00	339.95	395.00	34.93	46.00	
ANNUAL GENERATION (MWH) 3/	500,600	2,282,000	1,618,800	223,600	131,826	
PLANT HEAT RATE (BTU/KWH) 3/	12,235	9,831	10,849	14,013	16,894	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)					96.00	
AVERAGE HEAT CONTENT (BTU/LB)					10,945	
AVERAGE SULFUR CONTENT (%)					3.87	
AVERAGE ASH CONTENT (%)					12.05	
AVERAGE MOISTURE CONTENT (%)					11.16	
OIL: CONSUMPTION (1,000 BARRELS)	995.00	3,509.00	2,859.00	496.00		
AVERAGE HEAT CONTENT (BTU/GAL)	146,445	151,969	146,273	150,396		
AVERAGE SULFUR CONTENT (%)	.40	1.79	.42	.44		
GAS: CONSUMPTION (1,000 MCF)					257.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)					1,000	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	5	4	8	4	4	
- NO. OF WET BOTTOM					1	
- NO. WITH FLY ASH REINJECTION				4	3	
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS					1	
- NO. WITH COMBINATION PRECIPITATORS 4/						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	19.00 20.00	9.00 12.00	7.00 15.00	15.00 20.00	40.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					90.00 92.50	
TESTED, LOW - HIGH				98.00	93.80	
ESTIMATED, LOW - HIGH				90.00	93.80	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH					98.50	
TESTED, LOW - HIGH					98.50	
EST., LOW - HIGH					98.50	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.17	.59	.48	.01	.33	
SULFUR DIOXIDE (1,000 TONS)	1.34	21.07	4.03	.73	6.81	
NITROGEN OXIDES (1,000 TONS)	2.19	7.74	6.30	1.09	.67	
	6	4	8	4	4	
STACKS: - TOTAL NO.						
- HEIGHT (FEET), LOWEST - HIGHEST 8/	141.00 161.00	148.00	115.00 138.00	100.00	150.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/					12.90	
TOTAL ASH: COLLECTED (1,000 TONS) 10/		.20	.20			
SOLD (1,000 TONS) 11/						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				54.25	53.00	
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000) 13/					T5.00	
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	159.80	394.28	316.71	117.00	40.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($/,000)		10.00	12.00	3.00	8.00	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES T$1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 14/		10.00	12.00	3.00	8.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES A, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O PACIFIC OCEAN	O PACIFIC	O PACIFIC OCEAN	W	R OHIO	
AVERAGE RATE OF WITHDRAWAL (CFS)	295.00	603.00	611.00	62.00	33.00	
AVERAGE RATE OF DISCHARGE (CFS)	295.00	603.00	611.00	41.00	31.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 15/	2.54	5.19	5.25	.53	.28 2.00	
PEAK LOAD MONTH : SUMMER - WINTER 16/	JUN OCT	JUN OCT	JUN OCT	AUG DEC	AUG DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	80.00 78.00	82.00 80.00	82.00 76.00	73.00 73.00	105.00 70.00	
AT OUTFALL, SUMMER - WINTER	91.00 90.00	91.00	94.00	92.00 92.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER				63.00		
- WINTER						
FREQUENCY OF TEMPERATURE MONITORING: C, M, O, O 17/					O	
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.38	1.03	.77		.02	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.09		.28		.02	
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP						
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 18/	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 19/	PS	OT	ST	ST	PS	
RECEIVING WATER BODY		O PACIFIC OCEAN	O PACIFIC OCEAN			
POND DISCHARGE: 20/ PH, BOILER BLOWDOWN - ASH SETTLING	11.00	10.00 7.50	11.00		8.00	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	1.00	1.00 5,000.00	3.00		13.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	.91	.26	4.80		13,140.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 21/: ONCE THROUGH COOLING (FRESH)			2 22.50		4 46.00	
ONCE THROUGH COOLING (SALINE)	4 168.15	4 339.05	6 372.00	4 38.50		
COOLING PONDS(S)						
COOLING TOWER(S)						
COMBINATION 22/						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1930 1957	1963 1972	1938 1968	1948 1966	1951 1955	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 23/	7.00 13.00	10.00	9.40 13.00	15.00 19.00	15.20 21.40	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	457.00	640.00	849.00	81.00	36.70	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	461.00	646.00	863.00	81.00	145.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	1,174.54	3,861.85	3,396.13	331.00	745.00
COOLING PONDS ($1,000)					
COOLING TOWERS ($1,000)					

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	38.00	43.00	75.00	3.00	10.00
COST OF CHEMICAL ADDITIVES ($1,000)					

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	20.00	19.00	36.00	2.00	8.00
COST OF CHEMICAL ADDITIVES ($1,000)	11.00	10.00	41.00	1.04	.01

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	HENDERSON PWR & LT	NOLLAND BRO OF PUBLIC WORKS	HOLYOKE GAS & ELECTRIC DEPT.	HOLYOKE WATER POWER CO.	HOLYOKE WATER POWER CO.	
NAME OF PLANT	HENDERSON #2	OEYOUNG	HOLYOKE	NOUNT TON	R1VERS10E	
UTILITY-PLANT CODE	204500-0200	212500-0200	213500-0200	214500-0500	214500-0600	
STATE	KENTUCKY	N1CH1GAN	NASSACHUSETTS	NASSACHUSETTS	NASSACHUSETTS	
COUNTY	HENDERSON	OTTAWA	NANPOEN	NANPOEN	HANPOEN	
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	077 05	122 04	042 01	042 01	042 01	
PLANT CAPACITY (MW)	175.00	77.25	30.00	136.00	39.75	
ANNUAL GENERATION (MWH) 3/	888,570	233,200	109,400	873,200	40,384	
PLANT HEAT RATE (BTU/KWH) 3/	10,105	12,733	24,291	9,804	39,458	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	432.26	119.60		12.90		
AVERAGE HEAT CONTENT (BTU/LB)	10,347	12,404		11,835		
AVERAGE SULFUR CONTENT (%)	3.80	3.22		1.30		
AVERAGE ASH CONTENT (%)	15.48	7.97		13.50		
AVERAGE MOISTURE CONTENT (%)	11.26	7.70		9.10		
OIL: CONSUMPTION (1,000 BARRELS)	5.71		279.00	1,340.00	259.10	
AVERAGE HEAT CONTENT (BTU/GAL)	136,000		145,740	146,662	146,534	
AVERAGE SULFUR CONTENT (%)	.10		.89	1.11	.97	
GAS: CONSUMPTION (1,000 MCF)		2,260.00	1,871.80			
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,000	1,000			

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	1	5	4	1	7	
- NO. OF WET BOTTOM	1	1				
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS		1	2		1	
- NO. WITH ELECTROSTATIC PRECIPITATORS	1			1		
- NO. WITH COMBINATION PRECIPITATORS 4/		1				
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/						
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	18.00	2.00 3.00	16.00	12.00	15.00 20.00	
TESTED, LOW - HIGH		86.00	90.00 92.60		94.00	
ESTIMATED, LOW - HIGH		80.00 86.00				
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH		86.00	80.00			
TESTED, LOW - HIGH	99.00	97.00		95.00		
EST., LOW - HIGH		97.00		92.90		
DESULFURIZATION SYSTEN EFFICIENCY : DESIGN, LOW - HIGH	99.00	97.00		95.00		
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.43	.64	.01	.07	.02	
SULFUR OIDXIDE (1,000 TONS)	32.20	7.55	.83	5.32	.84	
NITROGEN OXIDES (1,000 TONS)	6.50	1.42	.98	3.05	.57	
STACKS: - TOTAL NO.	1	5	2	1	5	
- HEIGHT (FEET), LOWEST - HIGHEST 8/	350.00	200.00	225.00	370.00	65.00 97.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/			3.50	.01	.01	
TOTAL ASH: COLLECTED (1,000 TONS) 10/	66.47	11.90		1.75	.01	
SOLD (1,000 TONS) 11/						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)	1,500.00					
COMBINATION PRECIPITATORS ($1,000) 4/		150.00		344.00		
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	490.00	400.00		344.00		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	38.90	23.80		10.08	.25	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	38.90	23.80	12.50	10.08	13.62	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R GREEN	R BLACK	R CONNECTICUT	R CONNECTICUT	R CONNECTICUT	
AVERAGE RATE OF WITHDRAWAL (CFS)	12.70	555.00	40.70	205.00	85.00	
AVERAGE RATE OF DISCHARGE (CFS)	8.20	555.00	40.30	205.00	85.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	4.20	4.77	.93 .40	1.76 .73		
PEAK LOAD MONTH : SUMMER - WINTER 15/			AUG DEC	AUG JAN	AUG JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		82.00 32.00	85.00 32.00	80.00 44.00	76.00 36.00	
AT OUTFALL, SUMMER - WINTER		88.00 44.00	103.00 52.00	93.00 69.00	96.00 52.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		555.00	60,000.00	18,583.00	5,583.00	
- WINTER		555.00	60,000.00	18,583.00	18,583.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OT 16/	Q	H			YES	
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.70	.03	.25	.03	3.50	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	65.14	40.00	118.36	.01	54.50	
LIME (TONS), COOLING WATER - BOILER MAKEUP	6.50					
ALUM (TONS), COOLING WATER - BOILER MAKEUP	12.00		12.60 3.20	1.25	8.00	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	5.60	17.00	1.44 .36	3.97 .33	.36	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/		ST		ST	OT	
RECEIVING WATER BODY	R GREEN				R CONNECTICUT	
POND DISCHARGE 18/: PN, BOILER BLOWDOWN - ASN SETTLING				4.00		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				25.00		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 19/: ONCE THROUGH COOLING (FRESH)		5 77.20	3 25.00	1 136.00	5 44.75	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)						
COOLING TOWER(S)	1 175.00		1 5.00			
COMBINATION 20/						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1973	1940 1969	1934 1955	1960	1922 1948	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F) ; SMALLEST - LARGEST 21/	20.00	16.24	15.00 20.00	13.00	18.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	190.00	174.00	64.90	204.00	90.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		152.00	51.10	204.00	90.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)			75.00	57.00		
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)	1,150.00		30.00			

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		.45	51.00	36.72	4.15	
COST OF CHEMICAL ADDITIVES ($1,000)	2.10	6.80	1.00	.97	.23	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		1.65	10.00	7.05	13.94	
COST OF CHEMICAL ADDITIVES ($1,000)	6.70	6.70	16.00	5.05	13.50	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	INDIANA STATEWIDE REC	MOUMA, CITY OF	HOUSTON LIGHTING & POWER CO.	HOUSTON LIGHTING & POWER CO.	HOUSTON LIGHTING & POWER CO.	1
2							2
3							3
4	NAME OF PLANT	RATTS	MOUMA	DEEPWATER	GREEN BAYOU	CLARKE	4
5	UTILITY-PLANT CODE	216800-0100	218000-0100	218500-0100	218500-0400	218500-0500	5
6	STATE	INDIANA	LOUISIANA	TEXAS	TEXAS	TEXAS	6
7	COUNTY	PIKE	TERREBONNE	HARRIS	HARRIS	HARRIS	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	057 D5	186 D8	245 12	245 12	245 12	8
9	PLANT CAPACITY (MW)	233.20	39.10	334.85	820.98	210.00	9
10	ANNUAL GENERATION (MWH) [3]	1,502,288	113,709	1,128,100	1,853,900	161,600	10
11	PLANT HEAT RATE (BTU/KWH) [3]	10,132	9,179	12,016	11,020	12,497	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	706.20						12
13	AVERAGE HEAT CONTENT (BTU/LB)	10,629						13
14	AVERAGE SULFUR CONTENT (%)	2.00						14
15	AVERAGE ASH CONTENT (%)	12.52						15
16	AVERAGE MOISTURE CONTENT (%)	13.30						16
17	OIL: CONSUMPTION (1,000 BARRELS)	35.70		71.57	46.56	16.89		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	139,388		147,619	148,370	147,620		18
19	AVERAGE SULFUR CONTENT (%)	.20		2.14	.93	1.60		19
20	GAS: CONSUMPTION (1,000 MCF)		994.00	17,478.66	20,922.68	1,834.12		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,050	1,033	1,034	1,044		21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2	2	9	5	4		22
23	- NO. OF WET BOTTOM							23
24	- NO. WITH FLY ASH REINJECTION							24
25	- NO. WITH MECHANICAL PRECIPITATORS	2						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS							26
27	- NO. WITH COMBINATION PRECIPITATORS [4]							27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	10.00		12.00 15.00	7.00 8.00	10.00 12.90		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	88.00						30
31	TESTED, LOW - HIGH							31
32	ESTIMATED, LOW - HIGH	85.00						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH							33
34	TESTED, LOW - HIGH							34
35	EST., LOW - HIGH							35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	11.27		.01	.01	.02		39
40	SULFUR DIOXIDE (1,000 TONS)	27.71		.51	.16	.49		40
41	NITROGEN OXIDES (1,000 TONS)	6.43	.19	3.57	4.19	.56		41
42	STACKS: - TOTAL NO.	2	2	4	9	6		42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	300.00	64.00	166.00 339.00	95.00 227.00	98.80 125.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	92.00						45
46	SOLD (1,000 TONS) [11]							46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	146.00						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)							51
52	COMBINATION PRECIPITATORS ($1,000) [4]							52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	318.00	20.00					54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	25.00						55
56	REVENUES FROM SALE OF ASH ($1,000)							56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	25.00						59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)							60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R WHITE	M	O HOUSTON CHANL	M	M		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	260.70		354.60	6.80	1.40		62
63	AVERAGE RATE OF DISCHARGE (CFS)	259.70		352.90	2.90	.40		63
64	AVE. RATE OF CONSUMPTION (CFS); CALCULATED - REPORTED [14]	1.00		1.70	3.90	1.00		64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL DEC		AUG	JUL	JUL		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	82.00 50.00		90.00				66
67	AT OUTFALL, SUMMER - WINTER	98.00 70.00		111.00	98.00	99.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	347.00			TIDAL			68
69	- WINTER	173.00						69
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, O, OT [16]				M			70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.13		1.55	4.20 .70	1.60 .55		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	39.43	.01	17.85	327.44	4.45		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP							73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP							74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		1.00	2.75	92.00	1.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES YES	YES		76
77	SEWAGE DISPOSAL: METHOD (PS, ST, SW, OT) [18]	ST	PS	ST	ST	ST		77
78	RECEIVING WATER BODY	O ORAIN FIELD		O HOUSTON CHANL	O GREENS BAYOU	O SIMS BAYOU		78
79	POND DISCHARGE [19]: PH, BOILER BLOWDOWN - ASH SETTLING	9.20 9.20						79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING							80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							81
82	- ASH SETTLING							82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	2 233.20						83
84	ONCE THROUGH COOLING (SALINE)							84
85	COOLING PONDS							85
86	COOLING TOWERS		2 39.10	1 12.00	5 820.98	4 210.00		86
87	COMBINATION [21]			6 322.85				87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1969	1968 1972	1924 1955	1949 1973	1943 1951		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	14.70		9.20 19.50	15.40 36.09	15.00 16.60		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	318.00		771.10	873.40	450.00		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	318.60		787.00				91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)							92
93	COOLING PONDS ($1,000)							93
94	COOLING TOWERS ($1,000)							94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	2.50						95
96	COST OF CHEMICAL ADDITIVES ($1,000)			.25	29.25	.71		96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	8.00						97
98	COST OF CHEMICAL ADDITIVES ($1,000)	11.00		14.93	18.83	2.35		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	HOUSTON LIGHTING & POWER CO.	HOUSTON LIGHTING & POWER CO.	HOUSTON LIGHTING & POWER CO.	HOUSTON LIGHTING & POWER CO.	HOUSTON LIGHTING & POWER CO.	
2							
3							
4	NAME OF PLANT	ROBINSON	BERTRON	WHARTON	PARISH	WEBSTER	
5	UTILITY-PLANT CODE	218500-D600	218500-D700	218500-D800	218500-D900	218500-1000	
6	STATE	TEXAS	TEXAS	TEXAS	TEXAS	TEXAS	
7	COUNTY	GALVESTON	HARRIS	HARRIS	FORT BEND	HARRIS	
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	216 12	216 12	216 12	216 12	216 12	
9	PLANT CAPACITY (MW)	2,314.50	826.30	322.80	1,255.40	614.00	
10	ANNUAL GENERATION (MWH)[3]	9,616,800	4,359,200	1,374,200	6,281,100	2,719,100	
11	PLANT HEAT RATE (BTU/KWH)[3]	9,669	10,216	10,438	9,939	10,412	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)						
13	AVERAGE HEAT CONTENT (BTU/LB)						
14	AVERAGE SULFUR CONTENT (%)						
15	AVERAGE ASH CONTENT (%)						
16	AVERAGE MOISTURE CONTENT (%)						
17	OIL: CONSUMPTION (1,000 BARRELS)		325.03	37.91	30.24	11.10	
18	AVERAGE HEAT CONTENT (BTU/GAL)		151,309	147,570	147,618	152,422	
19	AVERAGE SULFUR CONTENT (%)		2.31	2.28	2.00	1.60	
20	GAS: CONSUMPTION (1,000 MCF)	87,379.85	41,194.41	13,739.00	59,683.34	27,338.15	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,030	1,030	1,027	1,042	1,032	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	6	4	2	4	3			
23	- NO. OF WET BOTTOM								
24	- NO. WITH FLY ASH REINJECTION								
25	- NO. WITH MECHANICAL PRECIPITATORS								
26	- NO. WITH ELECTROSTATIC PRECIPITATORS								
27	- NO. WITH COMBINATION PRECIPITATORS[4]								
28	- NO. WITH DESULFURIZATION SYSTEMS								
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	8.00 24.20	22.70 28.20	18.00	18.50 18.90	7.00 15.70			
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH								
31	TESTED, LOW - HIGH								
32	ESTIMATED, LOW - HIGH								
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH								
34	TESTED, LOW - HIGH								
35	EST., LOW - HIGH								
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH								
37	TESTED, LOW - HIGH								
38	ESTIMATED, LOW - HIGH								

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)		.05	.01	.01				
40	SULFUR OIOXIOE (1,000 TONS)		2.52	.29	.20	.06			
41	NITROGEN OXIDES (1,000 TONS)	17.59	8.75	2.58	11.70	5.36			
42	STACKS: - TOTAL NO.	8	8	4	7	6			
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	197.00 284.00	166.50 177.50	140.00 177.50	167.70 182.00	119.80 192.00			
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]								
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]								
46	SOLD (1,000 TONS)[11]								
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)								
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]								
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)								
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)								
51	ELECTROSTATIC PRECIPITATORS ($1,000)								
52	COMBINATION PRECIPITATORS ($1,000)[4]								
53	DESULFURIZATION SYSTEMS ($1,000)								
54	STACKS ($1,000)								
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)								
56	REVENUES FROM SALE OF ASH ($1,000)								
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)								
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)								
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]								
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)								

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	B DICKINSON	O HOUSTON CHANL	W	C DRY	C CLEAR			
62	AVERAGE RATE OF WITHDRAWAL (CFS)	1,659.70	990.70	6.50	58.90	627.20			
63	AVERAGE RATE OF DISCHARGE (CFS)	1,645.80	984.20	2.60	38.10	623.10			
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	13.90	6.50	3.90	13.90	4.10			
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL	AUG	JUL	JUL	JUL			
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	92.00	93.00		98.00	90.00			
67	AT OUTFALL, SUMMER - WINTER	104.00	102.00	91.00	86.00	106.00			
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	TIDAL		38.70		TIDAL			
69	- WINTER								
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]	C							
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS)[1], COOLING WATER - BOILER MAKEUP		1.35 1.10	.09	.14	.40			
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	2,375.75	156.26	1.72	18.88	40.55			
73	LIME (TONS), COOLING WATER - BOILER MAKEUP								
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP					2.10			
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	550.00	102.00	8.00	66.00	266.00			
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES	YES YES	YES	YES YES			
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	ST	ST	ST	ST			
78	RECEIVING WATER BODY	B GALVESTON	O HOUSTON CHANL	O GREENS BAYOU	L SMITHERS	L CLEAR			
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING			8.00					
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			70.00					
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN								
82	- ASH SETTLING								

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)								
84	ONCE THROUGH COOLING (SALINE)								
85	COOLING POND(S)								
86	COOLING TOWER(S)			2 322.80					
87	COMBINATIONS[21]	4 2,314.50	4 826.30		4 1,255.40	3 614.00			
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1966 1973	1956 1960	1958 1960	1958 1968	1954 1965			
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	17.25 18.03	14.21 15.05	17.73 18.10	14.10 16.50	16.02 16.25			
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	2,601.00	1,144.00	383.00	1,660.00	869.00			
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	2,601.00	1,144.00			869.00			

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)								
93	COOLING PONDS ($1,000)								
94	COOLING TOWERS ($1,000)								

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)								
96	COST OF CHEMICAL ADDITIVES ($1,000)	45.00	11.85	3.26	7.56	18.66			

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)								
98	COST OF CHEMICAL ADDITIVES ($1,000)	110.00	19.26	2.60	39.28	11.62			

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	1	HOUSTON LIGHTING & POWER CO.	ILLINOIS POWER CO.	ILLINOIS POWER CO.	ILLINOIS POWER CO.	ILLINOIS POWER CO.
2		2					
3		3					
4	NAME OF PLANT	4	CEDAR BAYOU	HAVANA	HENNEPIN	VERMILION	WOOD RIVER
5	UTILITY-PLANT CODE	5	218500-1100	222500-0200	222500-0300	222500-0600	222500-0700
6	STATE	6	TEXAS	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS
7	COUNTY	7	CHAMBERS	MASON	PUTNAM	VERMILION	MADISON
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	8	216 12	068 07	076 07	056 05	075 07
9	PLANT CAPACITY (MW)	9	1,530.00	230.00	306.25	182.30	650.10
10	ANNUAL GENERATION (MWH) [3]	10	8,937,200	597,400	1,486,200	779,400	2,534,200
11	PLANT HEAT RATE (BTU/KWH) [3]	11	9,665	12,865	10,059	10,998	10,159
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	12			682.70	394.60	1,034.70
13	AVERAGE HEAT CONTENT (BTU/LB)	13			10,890	10,858	10,991
14	AVERAGE SULFUR CONTENT (%)	14			3.00	2.90	2.97
15	AVERAGE ASH CONTENT (%)	15			10.00	11.33	10.30
16	AVERAGE MOISTURE CONTENT (%)	16			13.60	13.48	11.40
17	OIL: CONSUMPTION (1,000 BARRELS)	17		1,207.80		.56	140.51
18	AVERAGE HEAT CONTENT (BTU/GAL)	18		151,504		140,000	140,000
19	AVERAGE SULFUR CONTENT (%)	19		1.63		.10	.25
20	GAS: CONSUMPTION (1,000 MCF)	20	83,820.50		78.40		2,077.64
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,030		1,039		1,048
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	22	5	8	2	2	5
23	- NO. OF WET BOTTOM	23					
24	- NO. WITH FLY ASH REINJECTION	24					
25	- NO. WITH MECHANICAL PRECIPITATORS	25		8	2	1	5
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26			1	1	1
27	- NO. WITH COMBINATION PRECIPITATORS [4]	27					1
28	- NO. WITH DESULFURIZATION SYSTEMS	28					
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	29	20.50	25.00	31.00	24.00	25.00
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30		15.00	85.00	87.00	90.00
31	TESTED, LOW - HIGH	31					
32	ESTIMATED, LOW - HIGH	32		15.00		87.00	15.00
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	33			99.00	99.50	99.67
34	TESTED, LOW - HIGH	34			99.16	99.60	99.30
35	EST., LOW - HIGH	35			99.00		99.00
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36					85.00
37	TESTED, LOW - HIGH	37					
38	ESTIMATED, LOW - HIGH	38					
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	39		.17	2.32	2.94	2.80
40	SULFUR DIOXIDE (1,000 TONS)	40		6.61	40.14	22.43	60.35
41	NITROGEN OXIDES (1,000 TONS)	41	16.34	2.66	6.16	3.55	9.98
42	STACKS: - TOTAL NO.	42	3	3	1	1	3
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	43	215.50	225.00	275.00	275.00	250.00 350.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	44					
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	45		.10	65.90	41.10	103.40
46	SOLD (1,000 TONS) [11]	46				.80	18.10
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47					
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]	48					
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49					
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50			219.00	65.00	447.00
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51			2,690.00	1,420.00	2,170.00
52	COMBINATION PRECIPITATORS ($1,000) [4]	52					980.00
53	DESULFURIZATION SYSTEMS ($1,000)	53					6,800.00
54	STACKS ($1,000)	54		287.00	307.00	235.00	892.00
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55		5.50	54.20	39.50	279.70
56	REVENUES FROM SALE OF ASH ($1,000)	56					8.10
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57					24.60
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58					.60
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	59		5.50	54.20	39.50	304.30
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60				.20	8.70
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	O CEDAR BAYOU	R ILLINOIS	R ILLINOIS	O RESERVOIR	R MISSISSIPPI
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	1,225.20	568.00	277.00	3.00	770.00
63	AVERAGE RATE OF DISCHARGE (CFS)	63	1,211.80	563.10	274.60	3.00	763.40
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	64	13.40	4.90	2.40	3.00	6.60
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	65	JUL	JAN	JUL JAN		
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	90.00	34.00	83.00 35.00		42.00
67	AT OUTFALL, SUMMER - WINTER	67		38.00	50.00		68.00
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	TIDAL				
69	- WINTER	69		14,693.00	10,617.00		62,330.00
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O [16]	70	C				
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		5.93	.48	1.04	.88
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	1,028.89	109.42	63.35	132.00	686.10
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73				307.00	
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74					
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75		28.00		24.00	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	76	YES	YES	YES	YES	YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	77	OT	OT	ST	ST	OT
78	RECEIVING WATER BODY	78	O CEDAR BAYOU	R ILLINOIS			R MISSISSIPPI
79	POND DISCHARGE [19] PH, BOILER BLOWDOWN - ASH SETTLING	79		9.50	9.50	9.50	9.50
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80		400.00	400.00	1,000.00	300.00
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81					
82	- ASH SETTLING	82		29,000.00	9,350.00	15,500.00	175,000.00
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	83		5 260.00	2 306.25		5 655.50
84	ONCE THROUGH COOLING (SALINE)	84					
85	COOLING PONDS	85					
86	COOLING TOWERS	86				2 182.30	
87	COMBINATION [21]	87	2 1,530.00				
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1972	1947 1950	1953 1959	1955 1956	1962 1964
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	89	20.00	7.50	12.00 16.00	14.00 15.00	6.00 23.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	1,504.30	715.00	356.10	267.00	912.00
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	1,504.30	650.00	356.10		912.00
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92		2,695.00	2,054.00		3,900.00
93	COOLING PONDS ($1,000)	93					
94	COOLING TOWERS ($1,000)	94				2,693.00	
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95		8.60	12.20	19.00	14.70
96	COST OF CHEMICAL ADDITIVES ($1,000)	96	29.16	5.70	4.10	3.50	8.70
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97		34.30	10.90	29.90	53.10
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	107.36	15.20	11.50	36.30	105.70

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	ILLINOIS POWER CO.	IMPERIAL IRRIGATION DIST.	INDIANA & MICHIGAN ELECTRIC CO.	INDIANA & MICHIGAN ELECTRIC CO.	INDIANA & MICHIGAN ELECTRIC CO.	
NAME OF PLANT	BALDWIN	EL CENTRO	BREED	TANNERS CREEK	TWIN BRANCH	
UTILITY-PLANT CODE	222500-0800	223000-0700	225000-0200	225000-0700	225000-0800	
STATE	ILLINOIS	CALIFORNIA	INDIANA	INDIANA	INDIANA	
COUNTY	RANDOLPH	IMPERIAL	SULLIVAN	DEARBORN	ST. JOSEPH	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	070 07	033 18	084 05	079 05	082 04	
PLANT CAPACITY (MW)	1,257.55	189.10	495.60	1,100.30	394.00	
ANNUAL GENERATION (MWH)[3]	6,575,300	614,100	2,721,900	6,387,100	784,500	
PLANT HEAT RATE (BTU/KWH)[3]	9,968	11,509	9,441	9,327	11,042	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	3,184.00		1,186.80	2,664.00	273.30	
AVERAGE HEAT CONTENT (BTU/LB)	10,285		10,850	10,995	11,361	
AVERAGE SULFUR CONTENT (%)	3.27		3.33	3.43	3.11	
AVERAGE ASH CONTENT (%)	12.79		10.70	13.03	10.22	
AVERAGE MOISTURE CONTENT (%)	13.74		14.14	10.51	11.08	
OIL: CONSUMPTION (1,000 BARRELS)	7.41	274.95	3.70	24.90	470.00	
AVERAGE HEAT CONTENT (BTU/GAL)	140,000	153,172	137,912	135,000	137,264	
AVERAGE SULFUR CONTENT (%)	.10	1.21	.10	.10	.10	
GAS: CONSUMPTION (1,000 MCF)		4,996.83				
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,051				

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	4	1	4	12	
- NO. OF WET BOTTOM	2		1	1	4	
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS			1	3	4	
- NO. WITH ELECTROSTATIC PRECIPITATORS	2			1		
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]						
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	16.00	12.00 15.00	20.00	20.00	20.00	
TESTED, LOW - HIGH				85.00 87.30	85.00	
ESTIMATED, LOW - HIGH				65.50 70.60		
				62.00 67.00		
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	99.00			90.00		
TESTED, LOW - HIGH	96.63			65.30		
EST., LOW - HIGH	95.00			62.00		
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	1.66	.05	12.70	49.42	13.84	
SULFUR DIOXIDE (1,000 TONS)	204.07	1.12	77.45	179.11	16.82	
NITROGEN OXIDES (1,000 TONS)	87.58	1.58	32.64	49.18	5.14	
STACKS: - TOTAL NO.	2	4	1	4	4	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	605.00	99.00 107.00	550.00	273.00 550.00	269.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]	477.10		66.40	289.20	21.90	
SOLD (1,000 TONS)[11]	2.70			15.30	15.80	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)	4,700.00			1,004.00		
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	2,505.00	53.80		979.00		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	155.50		106.80	492.61		
REVENUES FROM SALE OF ASH ($1,000)	1.00		.09	7.60		
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	155.50		106.80	504.61		
TOTAL BYPRODUCT SALES REVENUES ($1,000)	1.00		.09	7.60		

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES A, C, B, C, W, M & O EXPL. IN FOOTNOTES)	R KASKASKIA	O STORAGE BASINS	R WABASH	R OHIO	R ST. JOSEPH	
AVERAGE RATE OF WITHDRAWAL (CFS)	27.90	2.45	533.59	1,541.00	353.00	
AVERAGE RATE OF DISCHARGE (CFS)	17.80	.19	533.54	1,541.00	353.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	10.10	2.26	.05	13.25	3.04	
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG JAN	JUL JAN	AUG DEC	AUG DEC	AUG DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	89.00 43.00	90.00 57.00	83.60 42.00	82.00 47.00	75.00 44.00	
AT OUTFALL, SUMMER - WINTER	91.00 45.00	116.00 86.00	94.30 54.30	97.00 62.00	86.00 56.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	1,885.00	.33	9,000.00	34,400.80	1,787.60	
- WINTER	1,626.00	.16	19,800.00	156,900.00	2,255.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]		C				
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.05	11.00 .15	.03	.15	.16	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	272.50	.15	15.79	.17	.03	
LIME (TONS), COOLING WATER - BOILER MAKEUP	102.50		11.00		27.00	
ALUM (TONS), COOLING WATER - BOILER MAKEUP	81.50					
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	46.00	36.01	8.00 .09	117.39	6.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES YES	YES	YES YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[16]	OT	ST	ST	OT	ST	
RECEIVING WATER BODY	O COOLING POND	R WABASH	R OHIO			
POND DISCHARGE[18]: PH, BOILER BLOWDOWN - ASH SETTLING	8.00		8.40	9.60	8.10	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				12.00	15.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	187,000.00		30,500.00	120,000.00		

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)			1 495.60	4 1,100.30	5 394.00	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)	1 623.00					
COOLING TOWER(S)		4 189.10				
COMBINATION[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1970	1949 1968	1960	1951 1964	1925 1949	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	14.00	15.00 21.00	12.20	6.00 13.60	9.70 12.60	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	720.00	277.50	669.90	1,589.70	594.80	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)			720.00	1,649.00	1,054.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)				1,737.00		
COOLING PONDS ($1,000)	3,000.00					
COOLING TOWERS ($1,000)		1,642.10				

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	16.70	48.60	137.72	63.80		
COST OF CHEMICAL ADDITIVES ($1,000)	5.00	26.08	.09	8.50		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	59.30	27.54	41.54	42.50		
COST OF CHEMICAL ADDITIVES ($1,000)	218.90	9.97	9.39	27.00		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	INDIANA-KENTUCKY ELECTRIC CORP.	INDIANAPOLIS POWER & LIGHT CO.	INDIANAPOLIS POWER & LIGHT CO.	INDIANAPOLIS POWER & LIGHT CO.	INDIANAPOLIS POWER & LIGHT CO.	
2							
3							
4	NAME OF PLANT	CLIFTY CREEK	STOUT	PRITCHARD	PERRY	PETERSBURG	
5	UTILITY-PLANT CODE	225500-0100	226000-0100	226000-0200	226000-0300	226000-0500	
6	STATE	INDIANA	INDIANA	INDIANA	INDIANA	INDIANA	
7	COUNTY	JEFFERSON	MARION	MORGAN	MARION	PIKE	
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	083 05	080 05	080 05	080 05	078 05	
9	PLANT CAPACITY (MW)	1,304.00	934.76	393.64	47.50	724.44	
10	ANNUAL GENERATION (MWH) 3/	9,353,100	2,604,000	1,244,700	67,000	3,909,600	
11	PLANT HEAT RATE (BTU/KWH) 3/	9,339	10,587	11,574		9,695	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	4,007.00	1,227.40	648.20	355.30	1,736.10	
13	AVERAGE HEAT CONTENT (BTU/LB)	10,852	11,076	11,112	11,299	10,954	
14	AVERAGE SULFUR CONTENT (%)	3.64	2.64	2.39	2.29	2.98	
15	AVERAGE ASH CONTENT (%)	11.69	9.30	9.70	9.35	9.77	
16	AVERAGE MOISTURE CONTENT (%)	12.63	14.13	13.79	12.94	13.62	
17	OIL: CONSUMPTION (1,000 BARRELS)		39.60		2.99		
18	AVERAGE HEAT CONTENT (BTU/GAL)		137,000		138,000		
19	AVERAGE SULFUR CONTENT (%)		.30		.10		
20	GAS: CONSUMPTION (1,000 MCF)				46.40		
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)				1,030		

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	6	13	6	7	2	
23	- NO. OF WET BOTTOM	6	2	3			
24	- NO. WITH FLY ASH REINJECTION				2		
25	- NO. WITH MECHANICAL PRECIPITATORS		3	4			
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		1	1	4	2	
27	- NO. WITH COMBINATION PRECIPITATORS 4/	6	1	2	2		
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	17.50	15.00 20.00		19.00 33.00		
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	78.50	90.20	75.00			
31	TESTED, LOW - HIGH		65.10	72.00 74.90			
32	ESTIMATED, LOW - HIGH		65.00	72.00 75.00			
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	96.10	99.50	99.00	90.00 99.00	97.00 99.00	
34	TESTED, LOW - HIGH		99.40	99.00	99.50 96.60	99.30 92.00 97.00	
35	EST., LOW - HIGH	96.10	99.00	99.00	96.00 99.00	82.00 97.00	
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	11.87	2.35	2.74	.72	19.31	
40	SULFUR DIOXIDE (1,000 TONS)	285.88	63.51	30.36	15.95	101.05	
41	NITROGEN OXIDES (1,000 TONS)	60.11	11.45	6.65	3.21	15.57	
42	STACKS: - TOTAL NO.	3	13	3	2	1	
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	682.00	565.00	250.00	272.00	550.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	457.00	110.60	57.00	31.90	164.60	
46	SOLD (1,000 TONS) 11/	57.00	7.00		16.70		
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		180.00	147.20			
51	ELECTROSTATIC PRECIPITATORS ($1,000)		1,788.00	611.00	662.20	2,507.00	
52	COMBINATION PRECIPITATORS ($1,000) 4/	3,390.00	415.50	1,156.00	4,562.00		
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	2,886.00	1,319.00	249.50	107.96	772.00	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	859.00	52.00	29.40	187.30	201.90	
56	REVENUES FROM SALE OF ASH ($1,000)	23.00			16.30		
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	1,000.00	52.00	29.40	187.30	201.90	
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	23.00			16.30		

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	A OHIO	R WHITE	A WHITE	R WHITE	R WHITE	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	2,130.00	207.30	233.00	9.10	460.00	
63	AVERAGE RATE OF DISCHARGE (CFS)	2,115.00	207.30	233.00	9.10	460.00	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	15.00			3.96		
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	JUN JAN	AUG DEC	AUG DEC	AUG DEC	AUG DEC	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	80.00 45.00			71.10 47.80		
67	AT OUTFALL, SUMMER - WINTER	91.90 56.50			88.60 60.40		
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						
69	- WINTER						
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O 16/						
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		4.80	2.06	9.65	.14	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		15.60	44.30	282.00	.19	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		34.00	37.57	728.24	222.64	
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	240.00	175.00 1.00	129.97	5.84	66.00 2.40	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES YES	YES YES	YES	YES	YES YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	OT	ST	ST	PS	ST	
78	RECEIVING WATER BODY	A OHIO				R WHITE	
79	POND DISCHARGE 19/ PPN, BOILER BLOWDOWN - ASH SETTLING	7.55			10.50	9.60	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	100.00			1.00		
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN				3.80	720.00	
82	- ASH SETTLING	585.59					

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	6 1,303.56		1 113.64		2 724.44	
84	ONCE THROUGH COOLING (SALINE)						
85	COOLING PONDS						
86	COOLING TOWERS		1 438.03				
87	COMBINATION 21/		6 375.78	5 280.00	4 47.50		
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1955 1956	1931 1973	1949 - 1956	1938		
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	12.00	19.00 29.00	19.00 19.50		23.50 25.00	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	2,032.20	819.40	481.40	133.00	633.70	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	2,032.20	501.00	481.40	89.00	633.70	

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	3,504.00	2,309.70	1,806.10	646.00	3,256.00	
93	COOLING PONDS ($1,000)						
94	COOLING TOWERS ($1,000)		3,490.40	323.20			

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	300.00	99.10	37.00	17.20	24.70	
96	COST OF CHEMICAL ADDITIVES ($1,000)	26.00	43.00	12.20	.70	8.80	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	29.00	153.00	98.05	110.90	86.60	
98	COST OF CHEMICAL ADDITIVES ($1,000)	6.00	14.70	6.50	31.80	24.60	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	INTERSTATE POWER CO.	INTERSTATE POWER CO.	INTERSTATE POWER CO.	INTERSTATE POWER CO.	IOWA ELECTRIC LIGHT & POWER CO.	
4	NAME OF PLANT	DUBUQUE	FOX LAKE	LANSING	KAPP	BOONE	
5	UTILITY-PLANT CODE	227000-0300	227000-0400	227000-0700	227000-0800	228500-0600	
6	STATE	IOWA	MINNESOTA	IOWA	IOWA	IOWA	
7	COUNTY	DUBUQUE	MARTIN	ALLAMAKEE	CLINTON	BOONE	
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	068 07	128 07	068 07	069 07	092 07	
9	PLANT CAPACITY (MW)	91.25	104.60	64.00	237.20	34.20	
10	ANNUAL GENERATION (MWH) [3]	391,700	350,600	283,600	1,112,500	164,800	
11	PLANT HEAT RATE (BTU/KWH) [3]	13,971	11,283	12,973	10,532	13,781	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	145.00		165.00	515.00	20.20	12
13	AVERAGE HEAT CONTENT (BTU/LB)	11,169		11,115	11,211	10,464	13
14	AVERAGE SULFUR CONTENT (%)	2.86		2.86	2.92	3.05	14
15	AVERAGE ASH CONTENT (%)	11.75		11.00	10.85	12.81	15
16	AVERAGE MOISTURE CONTENT (%)	13.19		10.75	10.89	14.44	16
17	OIL: CONSUMPTION (1,000 BARRELS)	1.00	413.00	1.10	.50		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	140,000	151,493	140,000	140,000		18
19	AVERAGE SULFUR CONTENT (%)	.40	2.75	.40	.40		19
20	GAS: CONSUMPTION (1,000 MCF)	2,238.00	1,332.00		170.00	1,851.70	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	999	998		1,000	1,000	21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	5	3	3	2	2	22
23	- NO. OF WET BOTTOM	2	2	3	2		23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS	2				2	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS				1		26
27	- NO. WITH COMBINATION PRECIPITATORS [4]						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	25.00	28.00	25.00	25.00	24.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	87.00				80.00	30
31	TESTED, LOW - HIGH	75.50					31
32	ESTIMATED, LOW - HIGH	74.00				80.00	32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH				98.00		33
34	TESTED, LOW - HIGH	99.70			99.10		34
35	EST., LOW - HIGH				98.00		35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	2.27	.07	11.80	3.91	.44	39
40	SULFUR OIOXIDE (1,000 TONS)	8.13	3.81	9.25	29.47	1.21	40
41	NITROGEN OXIDES (1,000 TONS)	2.06	1.17	2.48	7.76	.54	41
42	STACKS: - TOTAL NO.	5	2	2	2	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	128.00	142.00	151.00	245.00	183.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	20.30		3.80	56.40	2.60	45
46	SOLD (1,000 TONS) [11]			3.00	3.00		46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	196.00				53.00	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)				365.00		51
52	COMBINATION PRECIPITATORS ($1,000) [4]						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	47.00	92.28	17.20	239.40	27.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	38.30	.40	4.20	146.00	12.50	55
56	REVENUES FROM SALE OF ASH ($1,000)						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	38.30	.40	4.20	146.00	12.50	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MISSISSIPPI	L FOX	R MISSISSIPPI	R MISSISSIPPI	N	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	125.40	66.20	110.80	175.10	.75	62
63	AVERAGE RATE OF DISCHARGE (CFS)	125.40	66.20	110.80	175.10	.12	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	1.05	.91	.95	1.51	.63	64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG NOV	AUG NOV	AUG NOV	AUG NOV		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	80.00 51.00	78.00 49.00	86.00 58.00	79.00 56.00		66
67	AT OUTFALL, SUMMER - WINTER	105.00 86.00	95.00 64.00	94.00 67.00	89.00 66.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	39,461.00	LAKE	27,813.00	41,703.00		68
69	- WINTER	46.19	LAKE	34,730.00	49,080.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [16]						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.05	.22	.22	.06	.15	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	14.55	17.32	8.75	21.86	28.00	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		8.45				73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	1.10	2.17	.71	27.41	1.03	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [17]	PS	ST	ST	PS	PS	77
78	RECEIVING WATER BODY						78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	9.40 8.60	9.30 7.60	9.50 7.60	9.50 8.30	10.70	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					7.50	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	616.00	195.00	468.80	1,180.00	16.00	81
82	- ASH SETTLING	4,104.00	780.00	10,600.00	2,957.00		82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	4 91.25	3 104.60	3 64.00	2 237.20		83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING PONDS(S)						85
86	COOLING TOWER(S)					4 34.20	86
87	COMBINATION [18]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1926 1959	1950 1962	1948 1957	1947 1967	1942 1953	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [19]	9.30 16.30	12.80 17.40	11.50 16.30	10.40 21.40	15.00 20.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	220.00	147.00	134.00	263.00	86.90	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	220.00	147.00	134.00	263.00		91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	266.00	353.00	557.00	822.00		92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)					376.00	94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	22.30	13.20	18.60	34.60	13.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	.30	.50	.20	4.60	14.50	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	18.30	11.10	10.80	26.50	13.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	8.60	7.90	3.70	7.60	8.50	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1 NAME OF UTILITY	IOWA ELECTRIC LIGHT & POWER CO.	IOWA ELECTRIC LIGHT & POWER CO.	IOWA ELECTRIC LIGHT & POWER CO.	IOWA ELECTRIC LIGHT & POWER CO.	IOWA-ILLINOIS GAS & ELECTRIC CO.	
4 NAME OF PLANT	SIXTH STREET	PRAIRIE CREEK #4	PRAIRIE CREEK #1-3	SUTHERLAND	MOLINE	
5 UTILITY-PLANT CODE	228500-0R00	228500-2100	228500-2200	228500-2600	229000-0200	
6 STATE	IOWA	IOWA	IOWA	IOWA	ILLINOIS	
7 COUNTY	LINN	LINN	LINN	MARSHALL	ROCK ISLAND	
8 AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	088 07	088 07	088 07	078 07	099 07	
9 PLANT CAPACITY (MW)	92.20	148.70	96.00	156.60	99.00	
10 ANNUAL GENERATION (MWH)[3]	199,600	726,400	443,100	1,072,300	140,700	
11 PLANT HEAT RATE (BTU/KWH)[3]	29,137	10,492	12,770	11,332	14,376	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)	231.00	325.50	196.10	196.10	2.80	
13 AVERAGE HEAT CONTENT (BTU/LB)	10,285	10,884	10,941	10,299	10,326	
14 AVERAGE SULFUR CONTENT (%)	2.34	2.47	2.48	2.74	2.69	
15 AVERAGE ASH CONTENT (%)	8.04	8.94	9.10	11.14	8.15	
16 AVERAGE MOISTURE CONTENT (%)	19.10	15.07	14.63	16.35	19.29	
17 OIL: CONSUMPTION (1,000 BARRELS)	2.60	.53	.47		125.10	
18 AVERAGE HEAT CONTENT (BTU/GAL)	138,860	138,500	138,500		137,734	
19 AVERAGE SULFUR CONTENT (%)	.30	.25	.25		.46	
20 GAS: CONSUMPTION (1,000 MCF)	1,005.70	512.20	1,361.80	8,076.00	1,596.40	
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,040	1,039	1,039	998	1,039	

PLANT EQUIPMENT DATA

22 BOILERS: - TOTAL NO.	10	1	3	3	9	
23 - NO. OF WET BOTTOM	10	1	1	1		
24 - NO. WITH FLY ASH REINJECTION			2	1		
25 - NO. WITH MECHANICAL PRECIPITATORS	8	1	3	3		
26 - NO. WITH ELECTROSTATIC PRECIPITATORS	6					
27 - NO. WITH COMBINATION PRECIPITATORS[4]						
28 - NO. WITH DESULFURIZATION SYSTEMS						
29 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	[illegible] 25.00	20.00	[illegible] 25.00	16.00 22.00	[illegible] 25.00	
30 MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	47.0 78.00	80.00	85.00	80.00		
31 TESTED, LOW - HIGH						
32 ESTIMATED, LOW - HIGH	47.00 78.00	80.00	80.00	80.00		
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[5]: DESIGN, LOW - HIGH	98.00					
34 TESTED, LOW - HIGH						
35 EST., LOW - HIGH	98.00		98.00			
36 DESULFURIZATION SYSTEN EFFICIENCY : DESIGN, LOW - HIGH						
37 TESTED, LOW - HIGH						
38 ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMMISSIONS[6]: PARTICULATE MATTER (1,000 TONS)	1.54	3.78	1.80	1.50	.17	
40 SULFUR OIOXIOE (1,000 TONS)	10.60	15.76	9.53	10.53	.34	
41 NITROGEN OXIOES (1,000 TONS)	3.67	4.98	2.71	5.82	.61	
42 STACKS: - TOTAL NO.	10	1	2	3	5	
43 - HEIGHT (FEET), LOWEST - HIGHEST[6]	198.00	200.00	180.00	190.00	120.00 165.00	
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS)[6]						
45 TOTAL ASH: COLLECTED (1,000 TONS)[10]	19.80	24.80	15.60	20.20	.10	
46 SOLD (1,000 TONS)[11]						
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	230.00	56.80	75.00	157.00		
51 ELECTROSTATIC PRECIPITATORS ($1,000)	1,088.00					
52 COMBINATION PRECIPITATORS ($1,000)[4]						
53 DESULFURIZATION SYSTEMS ($1,000)						
54 STACKS ($1,000)	76.00	120.90	104.00	62.00	35.30	
55 ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	103.30	47.00	27.50	23.20	1.60	
56 REVENUES FROM SALE OF ASH ($1,000)						
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	103.30	47.00	27.50	23.20	1.60	
60 TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O LOCAL RUNOFF	R CEDAR	R CEDAR	W	R MISSISSIPPI	
62 AVERAGE RATE OF WITHDRAWAL (CFS)	5.50	138.00	105.00	3.60	53.60	
63 AVERAGE RATE OF DISCHARGE (CFS)	5.50	140.00	106.00	.60	53.60	
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]		[illegible]	[illegible]	3.00	.86	
65 PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL	OEC	OEC		AUG OEC	
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	87.00	42.00 87.00	42.00		84.00 35.00	
67 AT OUTFALL, SUMMER - WINTER		72.00 [illegible]	72.00 [illegible]		85.00 36.00	
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	[illegible]	[illegible]	[illegible]		[illegible]	
69 - WINTER		1,475.00	1,475.00		41,787.00	
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, O, ON[16]					H	
71 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	2.00	.78	.52	.25	.14	
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		51.00	34.00	.01	.11	
73 LIME (TONS), COOLING WATER - BOILER MAKEUP						
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP						
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	[illegible]	[illegible]	58.00	93.00	2.00	
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	
77 SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	ST	ST	ST	PS	
78 RECEIVING WATER BODY						
79 POND DISCHARGE:[19] PH, BOTTOM SLOWDOWN - ASH SETTLING	10.90 10.70	10.20	10.50	[illegible]	8.90 10.00	
80 SUSPENDED SOLIDS (PPM), BOILER SLOWDOWN - ASH SETTLING	20.00 80.00	150.00	8.50	[illegible]	[illegible]	
81 VOLUME (1,000 CUFT/YR), BOILER SLOWDOWN - ASH SETTLING	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
82	236.00	1,926.54	88.54		1.50	

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)		1 148.70	3 96.00		5 99.10	
84 ONCE THROUGH COOLING (SALINE)						
85 COOLING PONDS	7 92.25					
86 COOLING TOWERS				3 156.60		
87 COMBINATION[21]						
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST - NEWEST SYSTEM	[illegible]		[illegible]	[illegible]	[illegible]	
89 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	1917 1950	1967	1950 1958	1955 1961	1925 1954	
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	12.00 18.00	20.00 157.00	15.00 16.20 163.00	15.00 16.10 220.00	12.00 24.00 275.70	
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	31.90	158.00	163.00		275.70	

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTEMS ($1,000)		1,133.50	663.50		427.00
93 COOLING PONDS ($1,000)	314.00				
94 COOLING TOWERS ($1,000)				1,250.00	

ANNUAL COOLING WATER EXPENSES

95 OPERATION AND MAINTENANCE EXPENSES ($1,000)	14.10	9.00	4.00	25.20	4.00	
96 COST OF CHEMICAL ADDITIVES ($1,000)	4.20	10.90	5.60	79.00	1.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION AND MAINTENANCE EXPENSES ($1,000)	202.70	14.00	11.00	24.10	10.00	
98 COST OF CHEMICAL ADDITIVES ($1,000)	96.50	7.50	5.30	9.00	2.00	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	1	IOWA-ILLINOIS GAS & ELECTRIC CO.	IOWA PUBLIC SERVICE CO.	IOWA PUBLIC SERVICE CO.	IOWA PUBLIC SERVICE CO.	IOWA POWER & LIGHT CO.	1
2		2						2
3		3						3
4	NAME OF PLANT	4	RIVERSIDE	BIG SIOUX	GEORGE NEAL	MAYNARD	COUNCIL BLUFFS	4
5	UTILITY-PLANT CODE	5	229000-0300	229500-0200	229500-0800	229500-1300	230000-0100	5
6	STATE	6	IOWA	IOWA	IOWA	IOWA	IOWA	6
7	COUNTY	7	SCOTT	WOODBURY	WOODBURY	BLACKHAWK	POTTAWATTAMIE	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	8	069 07	086 10	086 10	088 07	085 10	8
9	PLANT CAPACITY (MW)	9	222.00	40.00	496.25	100.00	130.60	9
10	ANNUAL GENERATION (MWH)[3]	10	1,105,100	65,100	2,506,100	406,900	785,100	10
11	PLANT HEAT RATE (BTU/KWH)[3]	11	11,902	20,819	9,779	12,422	10,808	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	12	466.50		992.86	62.39	298.30	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	10,805		9,981	10,960	10,143	13
14	AVERAGE SULFUR CONTENT (%)	14	2.48		.60	2.86	1.09	14
15	AVERAGE ASH CONTENT (%)	15	8.68		11.22	10.21	8.96	15
16	AVERAGE MOISTURE CONTENT (%)	16	14.99		14.74	11.69	15.18	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17		12.49		16.45		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18		136,000		137,093		18
19	AVERAGE SULFUR CONTENT (%)	19		.10		.10		19
20	GAS: CONSUMPTION (1,000 MCF)	20	3,949.00	1,267.52	4,888.00	3,573.95	2,431.10	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,039	992	995	994	998	21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	22	9	4	2	5	2	22
23	- NO. OF WET BOTTOM	23	4		1			23
24	- NO. WITH FLY ASH REINJECTION	24				3		24
25	- NO. WITH MECHANICAL PRECIPITATORS	25	1			4	2	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	5		2	1		26
27	- NO. WITH COMBINATION PRECIPITATORS[4]	27						27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	29	5.00	25.00	10.40 20.00	25.00	22.00 23.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30	85.00			82.00 87.50	80.00	30
31	TESTED, LOW - HIGH	31						31
32	ESTIMATED, LOW - HIGH	32				85.00		32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	33	99.10 99.20		99.00	99.00		33
34	TESTED, LOW - HIGH	34	99.40 99.80			99.51		34
35	EST., LOW - HIGH	35			99.00	99.50		35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	39	.33		.73	.24	4.54	39
40	SULFUR DIOXIDE (1,000 TONS)	40	22.66		11.68	3.50	6.37	40
41	NITROGEN OXIDES (1,000 TONS)	41	4.98	.27	14.64	1.28	3.16	41
42	STACKS: - TOTAL NO.	42	7	1	2	3	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	43	144.00 346.00	300.00	250.00 300.00	225.00 250.00	250.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	44						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	45	38.10		135.60	6.59	22.40	45
46	SOLD (1,000 TONS)[11]	46						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50	101.90			86.00	187.00	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51	4,500.00		4,051.00	1,375.00		51
52	COMBINATION PRECIPITATORS ($1,000)[4]	52						52
53	DESULFURIZATION SYSTEMS ($1,000)	53						53
54	STACKS ($1,000)	54	240.30	35.30	537.20	121.00	306.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55	47.00		152.00	28.00	42.30	55
56	REVENUES FROM SALE OF ASH ($1,000)	56						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	59	47.00		152.00	28.00	42.30	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60						60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R MISSISSIPPI	R BIG SIOUX	R MISSOURI	R CEDAR	R MISSOURI	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	296.60	34.50	425.40	147.00	165.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	296.60	34.50	425.40	147.00	150.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	64	2.55	.30	3.66	1.26	1.42 15.00	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	65	AUG DEC	AUG DEC	AUG DEC	AUG DEC	AUG DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	85.00 47.00	78.00 37.00	73.00 37.00	76.00 39.00	80.00 41.00	66
67	AT OUTFALL, SUMMER - WINTER	67	100.00 60.00	96.00 51.00	96.00 62.00	95.00 55.00	100.00 56.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	43,535.00	3,145.00	38,600.00	19,270.00	33,170.00	68
69	- WINTER	69	41,787.00	213.00	21,600.00	1,730.00	20,680.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OT[16]	70	H		C			70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	.58	.29	.85	.50	.55	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	43.70	.40	80.00	33.13	.45	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73			180.00		16.00	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74	11.35		5.00			74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	4.00		.01	3.00	.05	75
T6	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES	YES	YES	YES	YES	T6
TT	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[16]	77	ST	PS	ST	PS	SW	77
78	RECEIVING WATER BODY	78					R MISSOURI	78
79	POND DISCHARGE[17] PH, BOILER BLOWDOWN - ASH SETTLING	79	8.90 10.30	11.00 7.50	9.80	10.50 6.70	10.50 8.70	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80	46.00	25.00 25.00		10.00		80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81	415.00	149.00	28.26	1,893.22	200.00	81
82	- ASH SETTLING	82	31,000.00	512.00		473.29		82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[18]: ONCE THROUGH COOLING (FRESH)	83	6 241.40	4 40.00	2 496.20	6 95.00	2 130.60	83
84	ONCE THROUGH COOLING (SALINE)	84						84
85	COOLING POND(S)	85						85
86	COOLING TOWER(S)	86						86
87	COMBINATION[19]	87						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1924 1961	1924 1948	1964 1972	1937 1958	1954 1958	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[20]	89	11.50 18.50	12.00	18.00 22.00	10.00	15.70 17.40	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	442.80	164.30	425.40	138.90	173.40	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	381.80	133.70	592.50	240.00	180.50	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92	724.00	297.00	2,085.00	146.00	1,311.00	92
93	COOLING PONDS ($1,000)	93						93
94	COOLING TOWERS ($1,000)	94						94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95	25.00		30.00	1.40	47.90	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96	.70			1.00		96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97	70.00	1.80	54.00	27.00	16.30	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	11.30	18.50	44.00	25.00	10.80	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	IOWA POWER & LIGHT CO.	IOWA SO. UTIL. CO.	IOWA SO. UTIL. CO.	IOWA STATE UNIV OF SCIENCE & TECH	JACKSONVILLE ELECTRIC LIGHT	
NAME OF PLANT	DES MOINES #2	BRIDGEPORT	BURLINGTON	AMES	PLT. KENNEDY	
UTILITY-PLANT CODE	230000-0200	230500-0100	230500-0200	231250-0100	234500-0100	
STATE	IOWA	IOWA	IOWA	IOWA	FLORIDA	
COUNTY	POLK	MONROE	DES MOINES	STORY	DUVAL	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	092 07	092 07	000 OT	999 OT	049 03	
PLANT CAPACITY (MW)	325.00	71.00	212.00	25.25	249.60	
ANNUAL GENERATION (MWH)[3]	1,636,400	236,300	858,300	80,892	1,069,600	
PLANT HEAT RATE (BTU/KWH)[3]	12,621	16,564	10,631	37,770	10,941	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	479.40	180.60	445.30	66.00		
AVERAGE HEAT CONTENT (BTU/LB)	9,549	9,928	10,183	11,468		
AVERAGE SULFUR CONTENT (%)	2.94	2.65	2.58	3.41		
AVERAGE ASH CONTENT (%)	13.65	13.70	9.00	12.38		
AVERAGE MOISTURE CONTENT (%)	16.25	14.32	18.95	15.53		
OIL: CONSUMPTION (1,000 BARRELS)	8.70	13.00	1.53		1,955.03	
AVERAGE HEAT CONTENT (BTU/GAL)	140,000	137,000	137,000		149,934	
AVERAGE SULFUR CONTENT (%)	.40	.10	.10		1.78	
GAS: CONSUMPTION (1,000 MCF)	11,427.10			1,546.32		
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,000			980		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	6	3	1	5	6	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION		3				
- NO. WITH MECHANICAL PRECIPITATORS	5	3				
- NO. WITH ELECTROSTATIC PRECIPITATORS			1			
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	7.00 23.00	56.00	20.00	30.00	12.00 15.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	90.00 80.00	93.00				
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH	83.00 75.00	80.00				
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH			98.00			
TESTED, LOW - HIGH			98.50			
EST., LOW - HIGH			98.50			
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	15.26	6.70	.51	5.36	.33	
SULFUR OIOXIOE (1,000 TONS)	27.64	9.38	22.52	4.45	11.67	
NITROGEN OXIOES (1,000 TONS)	6.56	1.38	4.01	.80	4.31	
STACKS: - TOTAL NO.	5	3	1	2	7	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	136.00 250.00	150.00	306.00	100.00 200.00	136.00 155.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]					.10	
TOTAL ASH: COLLECTED (1,000 TONS)[10]	51.00	22.70	39.60	8.00		
SOLD (1,000 TONS)[11]		3.00				
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	416.00	45.00				
ELECTROSTATIC PRECIPITATORS ($1,000)			367.00			
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)						
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	336.00	108.00	212.00	320.00	110.00	
REVENUES FROM SALE OF ASH ($1,000)	191.00	32.10	47.60	32.80		
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)		.20				
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	191.00	32.10	47.60	32.80		
TOTAL BYPRODUCT SALES REVENUES ($1,000)		.20				

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R DES MOINES	R DES MOINES	R MISSISSIPPI	W	R ST. JOHN'S	
AVERAGE RATE OF WITHDRAWAL (CFS)	274.00	1.06	163.87	.43	332.00	
AVERAGE RATE OF DISCHARGE (CFS)	271.00	.05	163.85	.24	332.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	3.00	1.01	.02	.19	2.00	
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG JAN		NOV	SEP JAN	JUL JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	90.00 42.00		81.00 51.00	72.00 54.00	96.00 70.00	
AT OUTFALL, SUMMER - WINTER	105.00 57.00		92.00 72.50	90.00 65.00	117.00 84.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	3,000.00		64,000.00		109,000.00	
- WINTER	3,000.00		64,000.00		109,000.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]				O		
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	2.50	.05	.08		.60	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	44.00	.10		.17	1.75	
LIME (TONS), COOLING WATER - BOILER MAKEUP		5.85				
ALUM (TONS), COOLING WATER - BOILER MAKEUP		1.00				
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	60.00			.21		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	ST	ST	PS	PS	
RECEIVING WATER BODY		O ASH SETTL POND	R MISSISSIPPI	C SQUAW		
POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	10.30 9.10	10.40	7.80			
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	3.00 .30	10.00	12.00			
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	217,000.00	46,000.00	51,000.00			

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)			1 212.00			
ONCE THROUGH COOLING (SALINE)					7 339.90	
COOLING PONDS						
COOLING TOWERS		3 71.00		4 25.00		
COMBINATION[21]	7 324.60					
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1925 1964	1957	1967	1969	1961	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	12.00 18.00	17.50	22.00	12.00	18.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	656.00	124.00	180.00	56.00	326.60	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	656.00		180.00		345.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	825.00		1,153.00		410.00
COOLING PONDS ($1,000)					
COOLING TOWERS ($1,000)	1,209.00	1.32		222.00	

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	56.00	68.20	27.60	28.00	61.80	
COST OF CHEMICAL ADDITIVES ($1,000)	4.00	17.10	1.70	16.50	2.60	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	36.00	25.30	3.20	24.00	92.20	
COST OF CHEMICAL ADDITIVES ($1,000)	18.00	7.00	1.10	9.00	.90	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	JACKSONVILLE ELECTRIC LIGHT	JACKSONVILLE ELECTRIC LIGHT	JERSEY CENTRAL POWER & LIGHT CO.	JERSEY CENTRAL POWER & LIGHT CO.	JERSEY CENTRAL POWER & LIGHT CO.
NAME OF PLANT	PL7. NORTHSIDE	PL7. SOUTHSIDE	WERNER	SAYREVILLE	OYSTER CREEK NUC
UTILITY-PLANT CODE	234500-0200	234500-0300	237000-0100	237000-0200	237000-0800
STATE	FLORIDA	FLORIDA	NEW JERSEY	NEW JERSEY	NEW JERSEY
COUNTY	DUVAL	DUVAL	MIDDLESEX	MIDDLESEX	OCEAN
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	049 03	049 03	[illegible] 02	[illegible] 02	150 02
PLANT CAPACITY (MW)	595.00	356.60	116.20	346.80	550.00
ANNUAL GENERATION (MWH)[3]	2,723,200	1,379,400	453,700	1,994,700	3,585,000
PLANT HEAT RATE (BTU/KWH)[3]	9,024	10,800	12,747	11,253	10,341

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)					
AVERAGE HEAT CONTENT (BTU/LB)					
AVERAGE SULFUR CONTENT (%)					
AVERAGE ASH CONTENT (%)					
AVERAGE MOISTURE CONTENT (%)					
OIL: CONSUMPTION (1,000 BARRELS)	3,950.21	2,576.74	958.00	3,543.00	
AVERAGE HEAT CONTENT (BTU/GAL)	149,924	149,911	143,803	144,216	
AVERAGE SULFUR CONTENT (%)	1.79	1.79	.37	.37	
GAS: CONSUMPTION (1,000 MCF)				.969.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)				1,015	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	5	4	6	
- NO. OF WET BOTTOM				4	
- NO. WITH FLY ASH REINJECTION					
- NO. WITH MECHANICAL PRECIPITATORS				2	
- NO. WITH ELECTROSTATIC PRECIPITATORS			1	2	
- NO. WITH COMBINATION PRECIPITATORS[4]					
- NO. WITH DESULFURIZATION SYSTEMS					
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	[illegible] 10.00	[illegible] 10.00	[illegible] 22.00	[illegible] 20.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH				86.20	
TESTED, LOW - HIGH					
ESTIMATED, LOW - HIGH				[illegible] 88.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH			85.00	90.00	
TESTED, LOW - HIGH			86.70	[illegible] 95.30	
EST., LOW - HIGH					
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH					
TESTED, LOW - HIGH					
ESTIMATED, LOW - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.66	.43	.07	.07	
SULFUR DIOXIDE (1,000 TONS)	23.73	15.48	1.19	4.40	
NITROGEN OXIDES (1,000 TONS)	8.71	5.68	2.11	8.00	
STACKS: - TOTAL NO.	2	6	4	5	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	[illegible] 250.00 300.00	[illegible] 135.00 145.00	[illegible] 126.00 210.00	[illegible] 180.00 221.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	.10				
TOTAL ASH: COLLECTED (1,000 TONS)[10]	.08	.08			
SOLD (1,000 TONS)[11]	.08	.08			
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]					
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				112.00	
ELECTROSTATIC PRECIPITATORS ($1,000)			212.00	604.00	
COMBINATION PRECIPITATORS ($1,000)[4]					
DESULFURIZATION SYSTEMS ($1,000)					
STACKS ($1,000)	480.00	164.00	60.50	134.90	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	1.70	3.40			
REVENUES FROM SALE OF ASH ($1,000)					
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)					
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)					
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	1.70	3.40			
TOTAL BYPRODUCT SALES REVENUES ($1,000)					

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R ST. JOHN'S	R ST. JOHN'S	R RARITAN	R RARITAN	B BARNEGAT
AVERAGE RATE OF WITHDRAWAL (CFS)	600.00	476.00	167.00	361.00	702.00
AVERAGE RATE OF DISCHARGE (CFS)	600.00	476.00	167.00	361.00	702.00
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	[illegible] 5.16	[illegible] 0.00	[illegible] 1.45	[illegible] 0.10	[illegible] 0.06
PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL JAN	JUL JAN	AUG JAN	AUG JAN	AUG JAN
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	96.00 66.00	91.00 68.00	79.90 44.30	84.20 38.00	85.00 48.00
AT OUTFALL, SUMMER - WINTER	115.00 83.00	[illegible] 81.00	[illegible] 52.53	100.40 52.00	106.80 65.00
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	[illegible] 63,000.00	[illegible] 92,000.00	[illegible]	[illegible]	[illegible]
- WINTER	63,000.00	92,000.00			
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OT[16]	H				
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	[illegible]	[illegible] 2.00	[illegible] 3.45	[illegible] 4.20	[illegible]
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	483.08	6.83	23.78	190.32	93.55
LIME (TONS), COOLING WATER - BOILER MAKEUP	58.00		3.00		
ALUM (TONS), COOLING WATER - BOILER MAKEUP	7.50		2.00		
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	55.00	62.50	44.00	100.00	[illegible]
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	[illegible] YES	[illegible] YES	YES	[illegible] YES	YES
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[16]	O7	SW/PS	ST	ST	OT
RECEIVING WATER BODY	C SAN CARLOS				O OYSTER CR./BAY
POND DISCHARGE[17] PH, BOILER BLOWDOWN - ASH SETTLING	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	[illegible]	[illegible]	[illegible]	6.70	[illegible]
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	[illegible]	[illegible]	[illegible]	203.00	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible] 149,600.00	[illegible]

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[18]: ONCE THROUGH COOLING (FRESH)	2 518.00	5 356.60	3 116.26	5 346.75	1 550.00
ONCE THROUGH COOLING (SALINE)					
COOLING PONDS)					
COOLING TOWER(S)					
COMBINATION[19]					
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1968 1972	1950 1964	1930 1953	1930 1958	[illegible] 1969
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	10.00	[illegible] 18.00	[illegible] 10.50	[illegible] 16.20	19.87
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	632.00	551.70	343.10	509.78	1,002.00
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	632.00	544.80	348.26	510.00	2,765.00

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	4,719.00	797.00	625.00	1,368.00	8,118.00
COOLING PONDS ($1,000)					
COOLING TOWERS ($1,000)					

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	167.40	78.40	34.60	36.50	59.50
COST OF CHEMICAL ADDITIVES ($1,000)	4.60	5.30	6.90	11.80	12.00

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	68.30	116.80	37.30	38.40	6.40
COST OF CHEMICAL ADDITIVES ($1,000)	10.90	1.70	4.60	36.70	5.80

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	KANSAS CITY POWER & LIGHT CO.	KANSAS CITY POWER & LIGHT CO.	KANSAS CITY POWER & LIGHT CO.	KANSAS CITY POWER & LIGHT CO.	KANSAS CITY POWER & LIGHT CO.	
NAME OF PLANT	GRAND AVE	HAWTHORNE	LA CYGNE	MONTROSE	NORTHEAST	
UTILITY-PLANT CODE	241500-0100	241500-0200	241500-0250	241500-0300	241500-0400	
STATE	MISSOURI	MISSOURI	KANSAS	MISSOURI	MISSOURI	
COUNTY	JACKSON	JACKSON	LINN	HENRY	JACKSON	
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	094 10	094 10	094 10	094 10	094 10	
PLANT CAPACITY (MW)	128.75	910.09	893.40	583.10	133.00	
ANNUAL GENERATION (MWH) 3/	187,000	3,311,000	418,534	3,134,000	186,984	
PLANT HEAT RATE (BTU/KWH) 3/	27,496	11,328	12,267	19,781	14,464	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	161.00	1,147.00	261.00	1,788.00		
AVERAGE HEAT CONTENT (BTU/LB)	12,336	10,588	9,246	9,413		
AVERAGE SULFUR CONTENT (%)	3.71	1.40	5.03	5.51		
AVERAGE ASH CONTENT (%)	11.08	9.53	25.88	23.19		
AVERAGE MOISTURE CONTENT (%)	5.54	12.51	8.89	10.19		
OIL: CONSUMPTION (1,000 BARRELS)	3.00		53.00	22.00	103.50	
AVERAGE HEAT CONTENT (BTU/GAL)	137,958		137,588	137,984	137,950	
AVERAGE SULFUR CONTENT (%)	.30		.30	.30	.30	
GAS: CONSUMPTION (1,000 MCF)	1,195.00	14,243.00			2,208.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	952	952			955	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	4	5	1	3	0	
- NO. OF WET BOTTOM			1			
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS		4				
- NO. WITH ELECTROSTATIC PRECIPITATORS		1		3		
- NO. WITH COMBINATION PRECIPITATORS 4/	3		1			
- NO. WITH DESULFURIZATION SYSTEMS		2				
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/						
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	10.0 12.50	20.00 85.00	15.00	20.00	20.00	
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH		85.00				
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	99.40	99.00		95.00 99.50		
TESTED, LOW - HIGH				99.50		
EST., LOW - HIGH	99.00	99.00				
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH		99.00	80.00			
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH		99.00	99.00			

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.15	3.91	6.76	1.76		
SULFUR DIOXIDE (1,000 TONS)	11.71	31.47	25.78	193.12		
NITROGEN OXIDES (1,000 TONS)	1.69	13.10	7.29	16.14	.43	
STACKS: - TOTAL NO.	3	3	1	2	5	
- HEIGHT (FEET), LOWEST - HIGHEST 8/	150.00 240.00	300.00 600.00	698.50	450.00	150.00 159.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/			75.00			
TOTAL ASH: COLLECTED (1,000 TONS) 10/	17.00	108.00	67.00	413.00		
SOLD (1,000 TONS) 11/				91.00		
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		324.00				
ELECTROSTATIC PRECIPITATORS ($1,000)		1,294.00		1,285.00		
COMBINATION PRECIPITATORS ($1,000) 4/	961.20					
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	128.00	1,014.00	2,599.00	457.00	33.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	150.00	515.00	270.00	671.00	104.00	
REVENUES FROM SALE OF ASH ($1,000)	3.00			107.00		
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)			1.00			
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	151.00	734.00	670.00	715.00	104.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)	3.00			107.00		

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MISSOURI	R MISSOURI	C N. SUGAR	C DEEPWATER	R MISSOURI	
AVERAGE RATE OF WITHDRAWAL (CFS)	53.00	785.00	891.00	575.00	52.00	
AVERAGE RATE OF DISCHARGE (CFS)	53.00	785.00	891.00	575.00	52.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	.44	6.75			.45	
PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG OEC	AUG OEC	AUG OEC	AUG OEC	AUG OEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	83.00 39.00	84.00 35.00	90.00 55.00	93.00 59.00	83.00 39.00	
AT OUTFALL, SUMMER - WINTER	98.00 59.00	98.00 60.00	119.00 80.00	108.00 85.00	98.00 59.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	61,000.00	61,000.00			61,000.00	
- WINTER	55,000.00	55,000.00			55,000.00	
FREQUENCY OF TEMPERATURE MONITORING: C, M, O, O 16/			0			
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.95	.50	1.00	3.50	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		658.05				
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP			26.00	34.28		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	PS	ST	OT	OT	PS	
RECEIVING WATER BODY						
POND DISCHARGE: 18/ PH, BOILER BLOWDOWN - ASH SETTLING						
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 19/: ONCE THROUGH COOLING (FRESH)	5 126.70	5 908.09			5 68.00	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)			1 873.00	3 563.10		
COOLING TOWER(S)						
COMBINATION 20/						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1929 1949	1951 1969	1973	1958 1964	1919 1938	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 21/			18.44	15.80		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)			891.30	765.00		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	501.00				443.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)					955.00	
COOLING PONDS ($1,000)	1,063.00	5,155.00	6,641.00	1,237.00		
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	7.00	21.00	9.00	28.00		
COST OF CHEMICAL ADDITIVES ($1,000)						

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	210.00	205.00	45.00	142.00	36.00	
COST OF CHEMICAL ADDITIVES ($1,000)						

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	KANSAS CITY BOARD OF PUBLIC UTILS.	KANSAS CITY BOARD OF PUBLIC UTILS.	KANSAS CITY BOARD OF PUBLIC UTILS.	KANSAS GAS & ELECTRIC CO.	KANSAS GAS & ELECTRIC CO.	1
2							2
3							3
4	NAME OF PLANT	KAW	QUINDARO #2	QUINDARO #3	EVANS	GILL	4
5	UTILITY-PLANT CODE	242000-0100	242000-0200	242000-0300	242500-0100	242500-0200	5
6	STATE	KANSAS	KANSAS	KANSAS	KANSAS	KANSAS	6
7	COUNTY	WYANDOTTE	WYANDOTTE	WYANDOTTE	SEDGWICK	SEDGWICK	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	10	10	10	11	11	8
9	PLANT CAPACITY (MW)	161.28	94.50	239.10	539.30	348.30	9
10	ANNUAL GENERATION (MWH) [3]	668,000	199,900	938,300	2,739,000	1,368,500	10
11	PLANT HEAT RATE (BTU/KWH) [3]	11,886	15,079	10,496	9,971	11,034	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	37.17	16.98	103.39			12
13	AVERAGE HEAT CONTENT (BTU/LB)	11,784	11,893	11,492			13
14	AVERAGE SULFUR CONTENT (%)	3.90	2.97	1.61			14
15	AVERAGE ASH CONTENT (%)	13.75	12.71	11.14			15
16	AVERAGE MOISTURE CONTENT 1%)	7.62	7.35	9.43			16
17	OIL: CONSUMPTION (1,000 BARRELS)				5.40	43.50	17
18	AVERAGE HEAT CONTENT (BTU/GAL)				145,657	145,901	18
19	AVERAGE SULFUR CONTENT (%)				1.02	.84	19
20	GAS: CONSUMPTION (1,000 MCF)	7,091.79	2,789.90	7,614.77	27,395.10	14,913.50	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	995	941	943	987	1,010	21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	3	6	2	2	4	22
23	- NO. OF WET BOTTOM	3	6	1			23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS	2	2				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	1		2			26
27	- NO. WITH COMBINATION PRECIPITATORS [4]						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED I%), LOWEST BOILER - HIGHEST BOILER [5]	[illegible]	[illegible]	[illegible]			29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	25.00	41.00	20.00	8.00	15.00	30
31	TESTED, LOW - HIGH	85.00	85.00				31
32	ESTIMATED, LOW - HIGH	85.00	85.00				32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	97.00		97.00 99.35			33
34	TESTED, LOW - HIGH			98.82			34
35	EST., LOW - HIGH	99.00		99.00 99.35			35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.22	.70	.05		.01	39
40	SULFUR OIOXIDE 11,000 TONS)	2.84	.99	3.26	.02	.12	40
41	NITROGEN OXIDES (1,000 TONS)	2.20	.83	3.20	5.35	3.00	41
42	STACKS: - TOTAL NO.	3	5	2	3	5	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	[illegible] 208.00	155.00	350.00	198.00	[illegible] 144.00 150.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	11.20	2.41	12.87			45
46	SOLD (1,000 TONS) [11]						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD 11,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	120.00	100.00				50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	247.00		595.00			51
52	COMBINATION PRECIPITATORS ($1,000) [4]						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	196.62	132.00	443.30	80.80	123.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	45.73	25.00	128.72			55
56	REVENUES FROM SALE OF ASH ($1,000)						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	45.73	25.00	128.72			59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R KAW	R MISSOURI	R MISSOURI	W	W	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	137.00	68.00	223.00	8.17	5.87	62
63	AVERAGE RATE OF DISCHARGE (CFS)	137.00	19.00	223.00	2.49	1.07	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	1.18	14.00	1.98	5.68	4.80	64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG	DEC	AUG	DEC	AUG	DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	85.00	40.00	85.00	40.00			66
67	AT OUTFALL, SUMMER - WINTER	100.00	55.00	100.00	55.00			67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	68
69	- WINTER	1,450.00	19,000.00	19,000.00		30.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OTH [16]		C				70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP				30.47 .15	14.33 4.30	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	21.00	123.50	76.50	.90	.80	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	83.44			15.00	12.00	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES YES	YES YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OTH [18]	PS	PS	PS	ST	ST	77
78	RECEIVING WATER BODY						78
79	POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	10.30 5.00	10.30 5.00	10.30 5.00			79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	400.00 2,000.00	400.00 2,000.00	400.00 2,000.00			80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	81
82	- ASH SETTLING	5,200.00	2,120.00	5,166.00			82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING: [20] ONCE THROUGH COOLING (FRESH)	3 161.28	3 94.50	2 239.10			83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING PONDS(S)						85
86	COOLING TOWER(S)				2 539.30	4 348.20	86
87	COMBINATION [21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1939 1962	1938 1952	1965 1970	1961 1967	1952 1959	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	10.70 15.85	14.00	13.48 14.25	22.24 25.32	14.50 17.40	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	273.00	262.00	340.00	469.20	493.30	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	273.00	296.00	340.00			91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	932.00	870.00	1,950.00			92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)				2,154.40	2,544.50	94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	66.00	48.00	66.00	75.50	64.10	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	8.00			73.50	32.20	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	15.00	15.00	30.00	8.50	38.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	3.30	71.00	4.72	14.30	13.50	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	KANSAS GAS & ELECTRIC CO.	KANSAS GAS & ELECTRIC CO.	KENTUCKY POWER CO.	KENTUCKY UTILITIES CO.	KENTUCKY UTILITIES CO
4	NAME OF PLANT	NEOSHO	RIPLEY	BIG SANDY	BROWN	GHENT A
5	UTILITY-PLANT CODE	242500-0500	242500-0400	245000-0100	245500-0200	245500-0250
6	STATE	KANSAS	KANSAS	KENTUCKY	KENTUCKY	KENTUCKY
7	COUNTY	LABETTE	SEDGWICK	LAWRENCE	MERCER	CARROLL
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	098 11	099 11	103 05	102 05	079 05
9	PLANT CAPACITY (MW)	113.50	87.20	1,096.80	696.00	511.00
10	ANNUAL GENERATION (MWH)[3]	409,800	661,900	5,215,000	5,532,200	25,900
11	PLANT HEAT RATE (BTU/KWH)[3]	11,750	15,491	9,544	10,507	12,780

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	.85		2,117.70	1,573.00	15.16
13	AVERAGE HEAT CONTENT (BTU/LB)	11,370		11,835	11,804	10,917
14	AVERAGE SULFUR CONTENT (%)	2.60		.97	1.72	2.76
15	AVERAGE ASH CONTENT (%)	10.00		12.49	13.25	10.19
16	AVERAGE MOISTURE CONTENT (%)	6.50		6.70	6.50	13.77
17	OIL: CONSUMPTION (1,000 BARRELS)	25.60	26.30	119.70	7.40	6.93
18	AVERAGE HEAT CONTENT (BTU/GAL)	146,956	143,204	129,000	132,000	141,000
19	AVERAGE SULFUR CONTENT (%)	2.00	1.20	.10	.02	.10
20	GAS: CONSUMPTION (1,000 MCF)	4,494.60	8,651.40			
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,031	1,014			

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	7	5	2	3	1
23	- NO. OF WET BOTTON					1
24	- NO. WITH FLY ASH REINJECTION					
25	- NO. WITH MECHANICAL PRECIPITATORS				2	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS			2	1	1
27	- NO. WITH COMBINATION PRECIPITATORS[4]					
28	- NO. WITH OESULFURIZATION SYSTENS					
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	10.00 35.00	10.00 12.00	20.00	20.00 25.00	20.00
30	MECHANICAL PRECIPITATOR EFFICIENCY : OESIGN, LOW - HIGH				80.00	
31	TESTED, LOW - HIGH					
32	ESTIMATED, LOW - HIGH				80.00	
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: OESIGN, LOW - HIGH			98.50	98.00	98.50
34	TESTED, LOW - HIGH			97.40 97.70	98.56 97.50	
35	EST., LOW - HIGH			97.40 97.70		98.00
36	OESULFURIZATION SYSTEN EFFICIENCY : OESIGN, LOW - HIGH					
37	TESTED, LOW - HIGH					
38	ESTIMATED, LOW - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.06		5.38	19.11	.02
40	SULFUR OIOXIOE (1,000 TONS)	.22	.11	40.50	53.03	.82
41	NITROGEN OXIOES (1,000 TONS)	.94	1.75	19.32	14.16	.23
42	STACKS: - TOTAL NO.	3	3	1	3	1
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	135.00 202.00	150.00	825.00	345.00 564.00	659.00
44	COMBUSTIOM CYCLE ADDITIVES (1,000 TONS)[9]					
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	.10		275.20	193.40	1.46
46	SOLD (1,000 TONS)[11]					
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]					
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				140.70	
51	ELECTROSTATIC PRECIPITATORS ($1,000)			3,094.00	727.00	756.00
52	COMBINATION PRECIPITATORS ($1,000)[4]					
53	OESULFURIZATION SYSTENS ($1,000)					
54	STACKS ($1,000)	107.10	98.80	2,521.00	1,065.50	779.50
55	ASH COLLECTION AND OISPOSAL EXPENSES ($1,000)	.70			6.00	
56	REVENUES FROM SALE OF ASH ($1,000)					
57	SULFUR PRODUCT COLLECTION AND OISPOSAL EXPENSES ($1,000)					
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)					
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	.70			6.00	
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)					

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R NEOSHO	W	R BIG SANOY	L HERRINGTON	R OHIO
62	AVERAGE RATE OF WITHORAWAL (CFS)	1.53	4.92	25.50		11.73
63	AVERAGE RATE OF OISCHARGE (CFS)	.23	4.17	7.70		
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.50	.75	21.05		11.73
65	PEAK LOAO MONTH : SUMMER - WINTER[15]	AUG OEC	AUG OEC	APR NOV	AUG OEC	
66	MAX. TEMP. OURING PEAK NONTH (OEG. F.): AT OIVERSION, SUMMER - WINTER			72.50 47.70		
67	AT OUTFALL, SUMMER - WINTER			71.10 51.80		
68	AVE. FLOW IN RECEIVING BOOY OURING PEAK MONTH (CFS): SUMMER			4076.64		
69	- WINTER	4,230.00	700.00	6,174.80		
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, O, O[16]					
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.58	1.10	.11	.60	.26
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.10	.60	252.24	55.80	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	24.15		12.00	4.73	
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP				6.91	
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	1.82		40.00 .45	5.29	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES
77	SEWAGE OISPOSAL: METHOO PS, ST, SW, OT[18]	ST	ST	OT	ST	
78	RECEIVING WATER BOOY			R BIG SANOY		R OHIO
79	POMO OISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING					7.50 7.50
80	SUSPENOED SOLIOS (PPM), BOILER BLOWDOWN - ASH SETTLING			1.00		720.00 720.00
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN					
82	- ASH SETTLING					

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)							
84	ONCE THROUGH COOLING (SALINE)							
85	COOLING PONOIS)	2 40.00						
86	COOLING TOWERIS)	1 75.50	5 87.20	2 1,096.80	5 696.00	1 511.00		
87	COMBINATIONS[21]							
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEN	1929 1954	1938 1949	1961 1969	1957 1971	1973		
89	OESIGN: TEMP. RISE ACROSS CONOENSERS (OEG. F), SMALLEST - LARGEST[22]	11.00 16.00	12.40 14.00	21.60 26.30	15.00 20.00	25.00		
90	TOTAL RATE OF FLOW THROUGH ALL CONOENSERS (CFS)	250.00	216.40	905.90	714.10	436.00		
91	TOTAL RATE OF WITHORAWAL, ONCE THROUGH COOLING SYSTENS (CFS)							

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)							
93	COOLING PONOS ($1,000)	812.00						
94	COOLING TOWERS ($1,000)	253.60	664.40	6,114.00	2,088.00	926.00		

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	25.60	5.20		2.50			
96	COST OF CHEMICAL ADDITIVES ($1,000)	10.50	27.60	28.00	50.00			

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	14.00	15.60		1.50	.25		
98	COST OF CHEMICAL ADDITIVES ($1,000)	2.20	.40	43.00	2.60	.38		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	KENTUCKY UTILITIES CO.	KENTUCKY UTILITIES CO.	KENTUCKY UTILITIES CO.	LAKE SUPERIOR DIST. PWR. CO.	LAKE WORTH LIGHT & WATER DEPT.		1
2								2
3								3
4	NAME OF PLANT	GREEN RIVER	PINEVILLE	TYRONE	BAY FRONT	LAKE WORTH		4
5	UTILITY-PLANT CODE	245500-0300	245500-0500	245500-0600	256000-0200	256500-0100		5
6	STATE	KENTUCKY	KENTUCKY	KENTUCKY	WISCONSIN	FLORIDA		6
7	COUNTY	MUHLENBERG	BELL	WOODFORD	ASHLAND	PALM BEACH		7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	072 05	101 05	102 05	129 04	050 03		8
9	PLANT CAPACITY (MW)	263.00	37.50	135.00	82.20	74.08		9
10	ANNUAL GENERATION (MWH)[2]	1,173,700	64,500	147,600	338,200	227,200		10
11	PLANT HEAT RATE (BTU/KWH)[3]	11,875	13,829	13,776	13,213	13,076		11
	AIR QUALITY CONTROL DATA							
	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	613.21	38.51	79.60	79.66			12
13	AVERAGE HEAT CONTENT (BTU/LB)	11,364	11,450	11,570	13,108			13
14	AVERAGE SULFUR CONTENT (%)	2.58	2.03	.90	3.09			14
15	AVERAGE ASH CONTENT (%)	10.15	16.12	12.39	6.60			15
16	AVERAGE MOISTURE CONTENT (%)	10.02	5.96	8.76	6.08			16
17	OIL: CONSUMPTION (1,000 BARRELS)		1.06	27.98	224.70	27.43		17
18	AVERAGE HEAT CONTENT (BTU/GAL)		132,000	139,573	132,948	148,000		18
19	AVERAGE SULFUR CONTENT (%)		.02	.20	.46	1.80		19
20	GAS: CONSUMPTION (1,000 MCF)				1,131.27	2,662.49		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)				998	1,051		21
	PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	5	1	5	5	4		22
23	- NO. OF WET BOTTOM				1			23
24	- NO. WITH FLY ASH REINJECTION				2			24
25	- NO. WITH MECHANICAL PRECIPITATORS	5	1	5	4	3		25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	1						26
27	- NO. WITH COMBINATION PRECIPITATORS[4]							27
28	- NO. WITH DESULFURIZATION SYSTEMS							28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]							29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	80.00 84.00	25.00 81.70	25.00 84.80	15.00 90.00	40.00 92.00	10.00 90.00	30
31	TESTED, LOW - HIGH			20.00				31
32	ESTIMATED, LOW - HIGH	80.00	81.70	81.00	90.00			32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	98.50						33
34	TESTED, LOW - HIGH	99.14						34
35	EST., LOW - HIGH							35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							36
37	TESTED, LOW - HIGH							37
38	ESTIMATED, LOW - HIGH							38
	PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	7.69	.97	1.60	1.10			39
40	SULFUR OIOXIDE (1,000 TONS)	31.01	1.53	1.42	5.17	.17		40
41	NITROGEN OXIDES (1,000 TONS)	5.52	.35	.78	1.98	.58		41
42	STACKS: - TOTAL NO.	3	1	3	5	4		42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	125.00 247.00	135.00	180.00	141.00 195.00	60.00 100.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]							44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	52.54	6.10	8.36	4.80			45
46	SOLD (1,000 TONS)[11]							46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							47
48	EQUIVALENT OF AC1O COLLECTED (1,000 TONS)[12]							48
49	ELEMENTAL AND EQUIVALENT OF AC1O SOLD (1,000 TONS)							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	229.25	19.96	53.00	145.00	45.00		50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	1,687.36						51
52	COMBINATION PRECIPITATORS ($1,000)[4]							52
53	DESULFURIZATION SYSTEMS ($1,000)							53
54	STACKS ($1,000)	141.11	11.85	103.80	169.83	54.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	63.00	38.62		117.25			55
56	REVENUES FROM SALE OF ASH ($1,000)							56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	63.00	38.62	31.80	17.25			59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)							60
	WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R GREEN	R CUMBERLAND	R KENTUCKY	L SUPERIOR	M		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	261.50	3.70	72.00	45.95			62
63	AVERAGE RATE OF DISCHARGE (CFS)	261.40	2.60	72.00	45.95			63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	2.25 .10	1.10	.02	.40 .42			64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG OEC	AUG OEC	AUG OEC	AUG JAN			65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	89.00 55.00		81.00 45.00	74.00 38.00			66
67	AT OUTFALL, SUMMER - WINTER	118.00 92.00		91.00 54.00	92.00 71.00			67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	2,299.00						68
69	- WINTER	18,980.00						69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]				H			70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.40	.03	.60	.60	.05		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	165.00	3.00	190.50	.13	12.11		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	1.81		6.00				73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	34.39 3.27	6.00	15.00	.25			74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	62.15 3.90			4.50	3.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	10.00 YES	YES YES	YES		YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	OT	OT	SW	ST	PS		77
78	RECEIVING WATER BODY	R GREEN	R CUMBERLAND	R KENTUCKY				78
79	POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	10.80 9.80	10.30 7.40	10.00 7.80	8.00 8.00	9.50		79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	1.20 25.00	1.00 1.00	1.00 5.00	450.00 500.00	300.00		80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	245.00	3.24	5.04	9.45		473.00	81
82	- ASH SETTLING	8,900.00	3,161.60	2,300.00				82
	COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	4 263.00		3 135.00	6 82.20			83
84	ONCE THROUGH COOLING (SALINE)							84
85	COOLING PONDS(S)							85
86	COOLING TOWER(S)		1 37.50			4 74.10		86
87	COMBINATION[21]							87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1949 1959	1951	1947 1953	1917 1957	1961 1971		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	20.00	16.00	12.00 18.00		14.50 17.20		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	406.90	7.91	256.10	124.00	146.20		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	406.90		256.10	123.90			91
	CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	2,580.69			687.00			92
93	COOLING PONDS ($1,000)							93
94	COOLING TOWERS ($1,000)		116.72			895.00		94
	ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	36.50	4.47		8.85	69.50		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	11.13	4.92		2.07	12.00		96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	52.40	6.78	13.70	20.80	.50		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	17.00	6.39	11.20	1.30	10.00		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	LAKELAND LIGHT & WATER DEPT.	LAKELAND LIGHT & WATER DEPT.	LAMAR LT & PWR DEPT	LANSING BOARD OF W.E.L. COMM.	LANSING BD OF WTR & ELEC LT COMM	1
2							2
3							3
4	NAME OF PLANT	LAKE PARKER	PLANT #3	LAMAR	ECKERT	ERICKSON	4
5	UTILITY-PLANT CODE	257500-0200	257500-0300	258500-0100	260500-0100	260500-0150	5
6	STATE	FLORIDA	FLORIDA	COLORADO	MICHIGAN	MICHIGAN	6
7	COUNTY	POLK	POLK	PROWERS	INGHAM	EATON	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	092 03	092 03	034 11	128 04	128 04	8
9	PLANT CAPACITY (MW)	120.00	100.00	25.00	386.00	165.00	9
10	ANNUAL GENERATION (MWH) 3/	415,525	511,479	76,200	1,521,400	447,473	10
11	PLANT HEAT RATE (BTU/KWH) 3/	12,848	10,548	15,019	9,482	10,437	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)				585.52	190.37	12
13	AVERAGE HEAT CONTENT (BTU/LB)				12,319	12,270	13
14	AVERAGE SULFUR CONTENT (%)				2.98	2.92	14
15	AVERAGE ASH CONTENT (%)				10.74	11.61	15
16	AVERAGE MOISTURE CONTENT (%)				4.92	4.75	16
17	OIL: CONSUMPTION (1,000 BARRELS)	473.80	T62.50	3.58			17
18	AVERAGE HEAT CONTENT (BTU/GAL)	148,584	148,544	145,000			18
19	AVERAGE SULFUR CONTENT (%)	2.09	2.08	.20			19
20	GAS: CONSUMPTION (1,000 MCF)	2,255.90	592.TO	1,081.56			20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,052	1,053	1,036			21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	4	1	4	6	1	22
23	- NO. OF WET BOTTOM				6		23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS				6	1	26
27	- NO. WITH COMBINATION PRECIPITATORS 4/						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	10.0 15.00	8.00	10.00 15.00	18.00	25.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH				97.50	99.50	33
34	TESTED, LOW - HIGH				98.00	99.50	34
35	EST., LOW - HIGH				97.50		35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.08	.13		1.02	.09	39
40	SULFUR DIOXIDE (1,000 TONS)	3.3T	5.32		34.20	10.89	40
41	NITROGEN OXIDES (1,000 TONS)	1.50	1.80	.22	8.78	1.TI	41
42	STACKS: - TOTAL NO.	4	1	4	6	1	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	165.00	150.00	44.00 71.00	304.00 359.00	475.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/				T4.79	23.30	45
46	SOLD (1,000 TONS) 11/				9.46		46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)				T6T.40	326.21	51
52	COMBINATION PRECIPITATORS ($1,000) 4/						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	113.00	14.00		592.50	900.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)				120.60	40.00	55
56	REVENUES FROM SALE OF ASH ($1,000)				19.3T		56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/				200.60	63.37	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)				19.37		60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L PARKER	L PARKER	W	R GRAND	R GRAND	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	355.00	176.00	26.60	19T.20	2.28	62
63	AVERAGE RATE OF DISCHARGE (CFS)	355.00	1T6.00	26.60	196.90	.85	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	3.00	3.00	.00	.30	.30	64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	SEP JAN	SEP JAN	AUG NOV	AUG NOV		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	92.30 T3.30	90.00 T5.60	60.00 60.00	86.00 51.00		66
6T	AT OUTFALL, SUMMER - WINTER	96.00 76.40	93.00 83.80	90.00 90.00	99.00 58.00		6T
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	1,200.00	176.00	33.30			68
69	- WINTER	300.00	176.00	22.00	649.00		69
TO	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O 16/			C	D		TO
T1	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.35	.40	.13	.29	.07	T1
T2	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.65		.06	.24		T2
T3	LIME (TONS), COOLING WATER - BOILER MAKEUP		4.T5				T3
T4	ALUM (TONS), COOLING WATER - BOILER MAKEUP						T4
T5	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP				28.00		T5
T6	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES	T6
T7	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	ST	ST	PS	PS	PS	T7
T8	RECEIVING WATER BODY			R ARKANSAS			T8
T9	POND DISCHARGE: 18/ PH, BOILER BLOWDOWN - ASH SETTLING	10.70	10.70		T1.00	9.50 9.50	T9
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	5.00	15.00		88.00	800.00 800.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING						81
82							82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING: 19/ ONCE THROUGH COOLING (FRESH)	4 120.00	1 115.00	4 35.00			83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING PONDS						85
86	COOLING TOWERS					1 165.00	86
87	COMBINATION 20/				6 381.00		87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1950 1966	1970	1972	1924 1970	1971	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 21/	4.00 8.20	11.40	12.60 30.00	16.30 23.00	21.45	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	406.00	176.00	28.17	450.60	148.40	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	406.00	176.00	33.50	450.00		91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	149.00	440.00	422.00	1,050.00		92
93	COOLING PONDS ($1,000)				1,100.00		93
94	COOLING TOWERS ($1,000)				1,015.00	344.10	94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	50.00	4.00	10.00	54.20	100.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)				3.20	8.08	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	5.00	1.50	5.00	14.00	22.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	2.50	1.50	.71	1.30	3.30	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	LANSING BOARD OF W.E.L. COMM.	LEA COUNTY ELEC COOP	LOGANSPORT MUN UTILS	LONG ISLAND LIGHTING CO.	LONG ISLAND LIGHTING CO.
NAME OF PLANT	OTTAWA	LOVINGTON	LOGANSPORT	BARRETT	FAR ROCKAWAY
UTILITY-PLANT CODE	260500-0400	265000-0100	272500-0100	273000-0100	273000-0300
STATE	MICHIGAN	NEW MEXICO	INDIANA	NEW YORK	NEW YORK
COUNTY	INGHAM	LEA	CASS	NASSAU	QUEENS
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	125 04	155 13	054 05	043 02	043 02
PLANT CAPACITY (MW)	81.50	60.50	38.50	375.00	113.64
ANNUAL GENERATION (MWH) 3/	120,300	197,800	133,600	2,060,200	358,800
PLANT HEAT RATE (BTU/KWH) 3/	16,504	12,795	13,975	10,241	10,723
AIR QUALITY CONTROL DATA					
FUEL CONSUMPTION DATA (ANNUAL)					
COAL: CONSUMPTION (1,000 TONS)	79.94		75.75		
AVERAGE HEAT CONTENT (BTU/LB)	12,437		11,789		
AVERAGE SULFUR CONTENT (%)	2.74		3.60		
AVERAGE ASH CONTENT (%)	7.96		9.11		
AVERAGE MOISTURE CONTENT (%)	6.16		9.45		
OIL: CONSUMPTION (1,000 BARRELS)		3.16	13.98	2,856.00	617.00
AVERAGE HEAT CONTENT (BTU/GAL)		137,026	138,000	145,134	142,382
AVERAGE SULFUR CONTENT (%)		.30	1.00	.76	.31
GAS: CONSUMPTION (1,000 MCF)		2,301.00		3,624.00	152.00
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,093		1,028	1,027
PLANT EQUIPMENT DATA					
BOILERS: - TOTAL NO.	5	2	2	2	1
- NO. OF WET BOTTOM	5				
- NO. WITH FLY ASH REINJECTION				1	
- NO. WITH MECHANICAL PRECIPITATORS			2	1	
- NO. WITH ELECTROSTATIC PRECIPITATORS	5				
- NO. WITH COMBINATION PRECIPITATORS 4/				1	1
- NO. WITH DESULFURIZATION SYSTEMS					
- EXCESS AIR USED (%, LOWEST BOILER - HIGHEST BOILER 5/	18.00	7.00 8.00	33.00	25.00	12.00
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			89.00 90.00		
TESTED, LOW - HIGH					
ESTIMATED, LOW - HIGH			89.00 90.00		
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	97.50			95.00	
TESTED, LOW - HIGH					
EST., LOW - HIGH	97.50				
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH					
TESTED, LOW - HIGH					
ESTIMATED, LOW - HIGH					
PLANT OPERATING DATA AND COST OF EQUIPMENT					
EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.10		.48	.26	.10
SULFUR DIOXIDE (1,000 TONS)	4.02		5.34	7.28	.64
NITROGEN OXIDES (1,000 TONS)	1.12	.46	.57	7.00	1.39
STACKS: - TOTAL NO.	1	2	2	2	1
- HEIGHT (FEET), LOWEST - HIGHEST 8/	293.00	77.00 78.00	111.00 125.00	250.00 350.00	265.50
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/				.10	.02
TOTAL ASH: COLLECTED (1,000 TONS) 10/	7.12		7.68	.04	.01
SOLD (1,000 TONS) 11/	.72				
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/					
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			18.70	808.00	
ELECTROSTATIC PRECIPITATORS ($1,000)	361.80				
COMBINATION PRECIPITATORS ($1,000) 4/				838.00	629.00
DESULFURIZATION SYSTEMS ($1,000)					
STACKS ($1,000)	174.30		164.00	465.00	125.00
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	18.50				
REVENUES FROM SALE OF ASH ($1,000)	.90				
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)					
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)					
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	38.50				
TOTAL BYPRODUCT SALES REVENUES ($1,000)	.90				
WATER QUALITY CONTROL DATA					
COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R GRAND	W	A EEL	O HOG IS CHANNEL	O MOTT BASIN
AVERAGE RATE OF WITHDRAWAL (CFS)	33.90	.88	.64	400.00	127.00
AVERAGE RATE OF DISCHARGE (CFS)	33.60	.29	.64	400.00	127.00
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	.29 .30	.59	.01	3.44	1.09
PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG NOV		AUG OCT		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	82.00 52.00		73.00 59.00		
AT OUTFALL, SUMMER - WINTER	95.00 63.00		83.00 71.50		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	1,022.00				
- WINTER	1,135.00				
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O 16/			C/H		
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.15	.60	.60	.50
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.13	.16	.40	.10	
LIME (TONS), COOLING WATER - BOILER MAKEUP					
ALUM (TONS), COOLING WATER - BOILER MAKEUP					
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	18.50	3.00		48.00	16.00
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES YES		YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, O 18/	PS	ST	PS	PS	PS
RECEIVING WATER BODY					
POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING	11.00				
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	30.00				
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	506.74				
COOLING FACILITY DATA					
NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	S 81.50		2 38.50		
ONCE THROUGH COOLING (SALINE)				2 375.00	1 113.64
COOLING POND(S)					
COOLING TOWER(S)		2 60.50			
COMBINATIONS 21/					
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1938 1947	1962 1966		1956 1963	1952
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	14.30	16.00	13.90 15.50		20.00
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	150.30	107.94	81.10	434.00	127.00
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	174.00		81.10	434.00	127.00
CAPITAL COSTS OF COOLING FACILITIES					
ONCE THROUGH COOLING SYSTEMS ($1,000)	82.00		201.50	2,349.00	486.00
COOLING PONDS ($1,000)					
COOLING TOWERS ($1,000)		268.00			
ANNUAL COOLING WATER EXPENSES					
OPERATION AND MAINTENANCE EXPENSES ($1,000)	20.20			20.00	
COST OF CHEMICAL ADDITIVES ($1,000)	2.10	22.00		2.00	
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES					
OPERATION AND MAINTENANCE EXPENSES ($1,000)	9.50		1.75	19.00	
COST OF CHEMICAL ADDITIVES ($1,000)	.20			.90	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	LONG ISLAND LIGHTING CO.	LONG ISLAND LIGHTING CO.	LONG ISLAND LIGHTING CO.	LOS ANGELES DEPT. OF WATER & POWER	LOS ANGELES DEPT. OF WATER & POWER
NAME OF PLANT	GLENWOOD	NORTHPORT	PORT JEFFERSON	HARBOR	HAYNES
UTILITY-PLANT CODE	273000-0400	273000-0600	273000-0700	274500-0700	274500-0800
STATE	NEW YORK	NEW YORK	NEW YORK	CALIFORNIA	CALIFORNIA
COUNTY	NASSAU	SUFFOLK	SUFFOLK	LOS ANGELES	LOS ANGELES
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	043 01	043 01	043 01	072 18	072 18
PLANT CAPACITY (MW)	380.27	1,161.27	467.00	388.90	1,606.00
ANNUAL GENERATION (MWH)[3]	1,194,300	6,852,200	2,382,300	979,800	10,027,800
PLANT HEAT RATE (BTU/KWH)[3]	12,333	9,679	10,405	12,427	9,194

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT (%)						
OIL: CONSUMPTION (1,000 BARRELS)	2,384.00	10,674.00	3,994.00	1,440.00	12,998.20
AVERAGE HEAT CONTENT (BTU/GAL)	145,060	148,318	147,807	148,134	145,644
AVERAGE SULFUR CONTENT (%)	.75	2.32	1.70	.45	.43
GAS: CONSUMPTION (1,000 MCF)	196.00			1,829.60	12,032.50
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,028			1,054	1,047

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	8	3	4	5	6	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION		3	2			
- NO. WITH MECHANICAL PRECIPITATORS	2	2				
- NO. WITH ELECTROSTATIC PRECIPITATORS	2	1				
- NO. WITH COMBINATION PRECIPITATORS[4]	4		4			
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	12.00 15.00	6.00	25.00 26.00	6.87 10.00	7.00 10.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		85.00				
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH		98.00				
TESTED, LOW - HIGH		98.00				
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.40	.19	.67	.24	2.18	
SULFUR DIOXIDE (1,000 TONS)	6.00	83.08	22.77	2.17	18.76	
NITROGEN OXIDES (1,000 TONS)	5.30	23.54	8.80	3.53	31.03	
STACKS: - TOTAL NO.	8	3	3	5	8	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	246.50 265.00	600.00	300.00 425.00	247.00	240.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	.02	1.20	.30		.01	
TOTAL ASH: COLLECTED (1,000 TONS)[10]	.02	.80	.32		2.00	
SOLD (1,000 TONS)[11]		.80	.32			
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	265.00	2,322.00				
ELECTROSTATIC PRECIPITATORS ($1,000)		1,030.00				
COMBINATION PRECIPITATORS ($1,000)[4]	1,322.00		2,882.00			
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	301.00	3,721.00	1,141.00	450.00	850.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)					10.00	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]					12.50	
TOTAL BYPRODUCT SALES REVENUES ($1,000)		560.00	66.00			

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O LONG IS SOUND	O LONG IS SOUND	H HEMPSTEAD	O PACIFIC OCEAN	O PACIFIC OCEAN	
AVERAGE RATE OF WITHDRAWAL (CFS)	368.00	900.00	600.00	359.00	1,569.00	
AVERAGE RATE OF DISCHARGE (CFS)	368.00	900.00	600.00	356.00	1,555.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	3.16	7.74	5.16	3.00	14.00	
PEAK LOAD MONTH : SUMMER - WINTER[15]				JUN JAN	JUN JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER				64.00 66.70	70.00 60.50	
AT OUTFALL, SUMMER - WINTER				73.30 72.50	89.00 8.30	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER				389.00	43.00	
- WINTER				433.00	225.70	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OT[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	2.00	.95	.30	.31	.23	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	2.00	.05	.04	.50	.10	
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP			42.00	24.00	94.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[17]	ST	ST	ST	PS	ST	
RECEIVING WATER BODY	H HEMPSTEAD		H HEMPSTEAD		O PACIFIC OCEAN	
POND DISCHARGE:[18] PH, BOILER BLOWDOWN - ASH SETTLING			9.00			
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			50.00			
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN			340.00			
- ASH SETTLING						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[19]: ONCE THROUGH COOLING (FRESH)						
ONCE THROUGH COOLING (SALINE)	4 350.00	3 1,125.00	4 460.00	5 388.90	6 1,606.00	
COOLING POND(S)						
COOLING TOWER(S)						
COMBINATION[20]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1930 1954	1967 1972	1948 1960	1943 1949	1962 1967	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[21]	15.00 16.50	22.00	12.00	18.90 20.20	17.40 19.40	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	590.00	988.50	632.38	592.00	1,398.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	228.00	988.50	632.38	616.00	1,570.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	1,412.00	5,285.00	3,315.00	3,857.00	7,733.00	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	260.00	180.00	120.00	514.00	63.60	
COST OF CHEMICAL ADDITIVES ($1,000)			6.00	2.95	8.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	52.00	120.00	120.00	60.00	19.80	
COST OF CHEMICAL ADDITIVES ($1,000)	6.00	200.00	1.00	1.30	18.80	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	LOS ANGELES DEPT. OF WATER & POWER	LOS ANGELES DEPT. OF WATER & POWER	LOUISIANA POWER & LIGHT CO.	LOUISIANA POWER & LIGHT CO.	LOUISIANA POWER & LIGHT CO.	
NAME OF PLANT	SCATTERGOOD	VALLEY	LITTLE GYPSY	NINE MILE	STERLINGTON	
UTILITY-PLANT CODE	274500-1200	274500-1600	275000-0100	275000-0200	275000-0300	
STATE	CALIFORNIA	CALIFORNIA	LOUISIANA	LOUISIANA	LOUISIANA	
COUNTY	LOS ANGELES	LOS ANGELES	ST. CHARLES	JEFFERSON	OUACHITA PARISH	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	024 18	024 18	08	08	08	
PLANT CAPACITY (MW)	326.40	545.60	1,250.78	1,917.34	291.53	
ANNUAL GENERATION (MWH)[3]	1,195,500	2,488,100	6,628,500	8,679,000	2,460,100	
PLANT HEAT RATE (BTU/KWH)[3]	9,308	10,835	10,087	10,110	10,671	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT (%)						
OIL: CONSUMPTION (1,000 BARRELS)	1,216.40	1,173.90	16.10	862.70	28.70	
AVERAGE HEAT CONTENT (BTU/GAL)	146,514	148,335	141,604	138,000	146,470	
AVERAGE SULFUR CONTENT (%)	.43	.40	.07	.07	1.00	
GAS: CONSUMPTION (1,000 MCF)	9,131.90	17,809.70	63,162.00	79,018.00	23,461.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,035	1,059	1,056	1,048	1,013	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	4	3	5	2	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS	2	4				
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]		15.00	8.00	15.00	8.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	27.50	27.50				
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH		84.00 90.00				
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.15	.02		.14		
SULFUR DIOXIDE (1,000 TONS)	1.75	1.58		.20	.10	
NITROGEN OXIDES (1,000 TONS)	4.46	6.06	12.35	17.31	4.42	
STACKS: - TOTAL NO.	1	4	5	8	5	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	300.00	250.00	161.50 182.00	270.00 185.50	125.00 146.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]		.01				
SOLD (1,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	155.00	434.00				
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)						
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	384.00	612.00	561.00	114.00	79.00	
REVENUES FROM SALE OF ASH ($1,000)	1.60	1.00				
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	1.60	1.00				
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES C, L, R, S, W, U & O EXPL. IN FOOTNOTES)	O PACIFIC OCEAN	M	R MISSISSIPPI	R MISSISSIPPI	R OUACHITA	
AVERAGE RATE OF WITHDRAWAL (CFS)	286.00	6.34	1,445.00	2,227.00	322.00	
AVERAGE RATE OF DISCHARGE (CFS)	284.00		1,445.00	2,227.00	322.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	2.46 2.00	6.34	12.49 .05	19.15 .05	2.77	
PEAK LOAD MONTH : SUMMER - WINTER[15]	JUN JAN	JUN JAN	JUL NOV	JUL NOV	JUL NOV	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	71.00 63.00	88.00	88.00 62.00	88.00 62.00	88.00 66.00	
AT OUTFALL, SUMMER - WINTER	90.00 83.00		81.00	87.00	85.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	344.00		528,000.00	350,000.00	18,027.00	
- WINTER	172.00		350,000.00	350,000.00	18,027.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OT[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.17	12.18 .97	1.00	3.25	.30	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.17	4.52	603.93	881.91	19.08	
LIME (TONS), COOLING WATER - BOILER MAKEUP				4.50		
ALUM (TONS), COOLING WATER - BOILER MAKEUP			25.50	110.50	6.61	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	26.03	24.10	3.45	.70		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[16]	PS	PS	ST	OT	ST	
RECEIVING WATER BODY				O SURFACE DRAIN		
POND DISCHARGE[17]: PH, BOILER BLOWDOWN - ASH SETTLING						
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[18]: ONCE THROUGH COOLING (FRESH)			3 1,250.78	5 1,917.34	2 291.53	
ONCE THROUGH COOLING (SALINE)	2 326.40					
COOLING POND(S)						
COOLING TOWER(S)		4 545.60				
COMBINATION[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1958 1959	1954 1956	1961 1969	1951 1973	1945 1958	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	17.80	13.25 20.70	19.00 25.00	16.00 20.60	16.00 17.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	348.00	626.00	1,445.00	2,220.00	322.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	348.00		1,445.00	2,273.00	344.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	7,139.00		4,989.00	2,256.00	1,176.00	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)		7,124.00				

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	30.00	95.00				
COST OF CHEMICAL ADDITIVES ($1,000)	2.60	22.00		1.00	1.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	12.00	75.00				
COST OF CHEMICAL ADDITIVES ($1,000)	1.30	7.90	106.30	105.80	4.00	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	LOUISVILLE GAS & ELECTRIC CO.	LOUISVILLE GAS & ELECTRIC CO.	LOUISVILLE GAS & ELEC CO	LOWER COLORADO RIVER AUTH.	LUBBOCK, CITY OF	
NAME OF PLANT	CANE RUN	PADDYS RUN	MILL CREEK	GIDEON	HOLLY AVE	
UTILITY-PLANT CODE	275500-0200	275500-0400	275500-0600	277000-0800	278000-0100	
STATE	KENTUCKY	KENTUCKY	KENTUCKY	TEXAS	TEXAS	
COUNTY	JEFFERSON	JEFFERSON	JEFFERSON	BASTROP	LUBBOCK	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	070 05	070 05	070 05	215 12	215 12	
PLANT CAPACITY (MW)	1,017.00	537.50	330.00	565.00	50.00	
ANNUAL GENERATION (MWH)[3]	4,858,400	401,900	1,365,600	2,679,700	237,100	
PLANT HEAT RATE (BTU/KWH)[3]	10,172	13,748	9,840	9,885	13,823	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	1,906.50	182.70	586.40			
AVERAGE HEAT CONTENT (BTU/LB)	11,075	11,568	11,152			
AVERAGE SULFUR CONTENT (%)	3.76	3.42	3.80			
AVERAGE ASH CONTENT (%)	14.02	12.57	13.76			
AVERAGE MOISTURE CONTENT (%)	8.88	7.82	8.48			
OIL: CONSUMPTION (1,000 BARRELS)		.03		305.00	5.00	
AVERAGE HEAT CONTENT (BTU/GAL)		140,000		140,808	138,000	
AVERAGE SULFUR CONTENT (%)		.10		.10	.10	
GAS: CONSUMPTION (1,000 MCF)	7,012.50	1,472.90	351.80	25,567.00	3,305.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,025	1,025	1,025	990	1,018	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	6	6	1	3	1	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS	6	6	1			
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS		1				
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	21.00 25.00	25.00	21.00	8.00 10.00	10.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
EST(MATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	97.50 99.40	96.00 97.50	99.40			
TESTED, LOW - HIGH	97.50 99.70	98.10 99.50	99.50			
EST., LOW - HIGH	98.00 99.50	96.50 99.10				
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH		85.00				
TESTED, LOW - HIGH		86.00				
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	2.45	.29	.54	.05		
SULFUR DIOXIDE (1,000 TONS)	140.51	12.31	45.68	.10		
NITROGEN OXIDES (1,000 TONS)	18.53	1.93	5.55	5.66	1.56	
STACKS: - TOTAL NO.	6	5	1	5	1	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	257.00 518.00	235.00	615.00	154.00 177.00	94.50	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]		5.50				
TOTAL ASH: COLLECTED (1,000 TONS)[10]	262.80	21.20	82.90			
SOLD (1,000 TONS)[11]	57.10					
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	3,003.00	990.00	1,486.00			
ELECTROSTATIC PRECIPITATORS ($1,000)		3,760.00				
COMBINATION PRECIPITATORS ($1,000)[4]	1,213.00	203.00	2,253.00	31.83		
DESULFURIZATION SYSTEMS ($1,000)	315.00	104.00	150.40			
STACKS ($1,000)	57.00					
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		152.00				
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	315.00	256.00	150.40			
TOTAL BYPRODUCT SALES REVENUES ($1,000)	57.00					

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R OHIO	R OHIO	R OHIO	R COLORADO	M	
AVERAGE RATE OF WITHDRAWAL (CFS)	890.80	122.60	250.00	4.25	.97	
AVERAGE RATE OF DISCHARGE (CFS)	890.80	122.60	250.00		.25	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	7.66	1.00	2.15	4.25	.72	
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG OCT	AUG OCT	AUG OCT	SEP JAN	JUN DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	84.00 78.00	84.00 78.00	84.00 78.00	92.00 61.00	88.00 56.00	
AT OUTFALL, SUMMER - WINTER	99.00 94.00	89.00	93.00	104.00 74.00	90.00 76.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	14,000.00	4,000.00	14,000.00			
- WINTER	31,000.00	31,000.00	31,000.00	834.00	.79	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]			C			
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.70	.50	.59	.58	.02	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.28	.10			.04	
LIME (TONS), COOLING WATER - BOILER MAKEUP				50.00		
ALUM (TONS), COOLING WATER - BOILER MAKEUP				5.75		
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	212.00	48.00	54.00	20.00	.50	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]		OT	OT	OT	SW	
RECEIVING WATER BODY		R OHIO	R OHIO	L BASTROP	O IRRIG. POND	
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	10.00 11.00	10.50 9.50	10.20 10.20			
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	10.00 102.00	14.00 87.30	8.00 6.00			
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	160.00	73.00	4.00			
- ASH SETTLING	355,000.00	65,662.00	850,000.00			

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	6 1,016.69	6 557.50	1 355.50			
ONCE THROUGH COOLING (SALINE)						
COOLING PONDS(S)				3 565.00		
COOLING TOWERS(S)					1 50.00	
COMBINATIONS[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1954 1969	1942 1952	1972	1964	1965	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	13.00 16.00	10.00	25.55	9.97 15.34	14.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,253.70	652.80	289.70	933.00	78.66	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,253.70	632.80	289.70			

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	8,094.00	5,260.00	3,426.00			
COOLING PONDS ($1,000)				5,650.00		
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	85.00	58.00	60.00	38.13		
COST OF CHEMICAL ADDITIVES ($1,000)	24.00	10.00	12.00	6.10	12.75	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	157.00	39.00	98.00	29.59		
COST OF CHEMICAL ADDITIVES ($1,000)	38.00	11.00	26.00	7.17	2.75	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	LUBBOCK, CITY OF	MADISON GAS & ELECTRIC CO.	MAINE YANKEE ATOMIC PWR CO	MANITOWOC PUBLIC UTILS	MARQUETTE BRD OF LT & PWR	
NAME OF PLANT	PLANT #2	BLOUNT	MAINE YANKEE	MANITOWOC	SHIRAS	
UTILITY-PLANT CODE	278000-0300	283500-0100	285250-0100	287000-0100	292000-0500	
STATE	TEXAS	WISCONSIN	MAINE	WISCONSIN	MICHIGAN	
COUNTY	LUBBOCK	DANE	LINCOLN	MANITOWOC	MARQUETTE	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	211 12	240 07	107 01	232 04	126 04	
PLANT CAPACITY (MW)[3]	80.50	195.50	830.00	69.00	37.00	
ANNUAL GENERATION (MWH)[3]	280,000	737,800	3,351,300	222,400	119,900	
PLANT HEAT RATE (BTU/KWH)[3]	14,319	12,054	11,028	14,999	14,243	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)			178.70		134.99	59.40
AVERAGE HEAT CONTENT (BTU/LB)			11,535		12,361	11,563
AVERAGE SULFUR CONTENT (%)			3.06		1.42	2.84
AVERAGE ASH CONTENT (%)			8.79		10.68	7.69
AVERAGE MOISTURE CONTENT (%)			10.91		4.47	10.15
OIL: CONSUMPTION (1,000 BARRELS)		5.90	.90			
AVERAGE HEAT CONTENT (BTU/GAL)		138,000	137,900			
AVERAGE SULFUR CONTENT (%)		.10	.30			
GAS: CONSUMPTION (1,000 MCF)		3,928.20	4,745.00			334.02
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,012	1,010			1,000

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.		5	9		5	2
- NO. OF WET BOTTOM			1			
- NO. WITH FLY ASH REINJECTION					2	
- NO. WITH MECHANICAL PRECIPITATORS			3		3	2
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS[4]			2			
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	7.00 15.00	10.00 25.00		25.00 30.00		15.00
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		85.00		89.10 95.10	90.00	92.00
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH		85.00		89.00 95.00	90.00	92.00
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH		99.50				
TESTED, LOW - HIGH						
EST., LOW - HIGH		99.00 99.10				
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)			.45		1.62	.27
SULFUR DIOXIDE (1,000 TONS)			10.69		3.76	3.30
NITROGEN OXIDES (1,000 TONS)		.77	2.51		1.01	.51
STACKS: - TOTAL NO.		5	6		1	1
- HEIGHT (FEET), LOWEST - HIGHEST[8]	45.00 56.00	88.00 250.00			263.00	250.50
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]			14.70			.46
SOLD (1,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			199.00		103.80	
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000)[4]			1,620.00			
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)			277.00		82.25	128.00
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)			161.00		22.98	4.76
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]			161.00		22.98	12.76
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	M	L MONONA	B MONTSWEAG	L MICHIGAN	L SUPERIOR	
AVERAGE RATE OF WITHDRAWAL (CFS)	.87	150.00	732.00	50.80	30.30	
AVERAGE RATE OF DISCHARGE (CFS)	.21	149.00	732.00	50.80	30.30	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.66	1.00	6.30	.44	.26	
PEAK LOAD MONTH : SUMMER - WINTER[15]	JUN OCT	JUL JAN	AUG JAN	AUG OCT	JUL OCT	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	68.00 56.00	78.60 50.00	73.00 48.00	60.08 40.00	63.70 40.30	
AT OUTFALL, SUMMER - WINTER	84.00 78.00	85.28 65.40	80.00 71.00	73.88 51.00	84.00 67.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	1,340	1,800.00	48,000.00			
- WINTER	.64	159.00	40,000.00			
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OTH[16]			N		H	
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.08 .27	1.60		.21	.33	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.34	.34	47.95		.60	
LIME (TONS), COOLING WATER - BOILER MAKEUP		18.18				
ALUM (TONS), COOLING WATER - BOILER MAKEUP		2.83				
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.5				.58	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OTH[18]	PS	PS	OT	SW	PS	
RECEIVING WATER BODY				L MICHIGAN		
PONDED DISCHARGE[19] PH, BOILER BLOWDOWN - ASH SETTLING		11.00		9.00	10.20 6.50	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		11.00			20.00 6.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING					491,000.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20] ONCE THROUGH COOLING (FRESH)		7 176.00		5 69.00	2 37.00	
ONCE THROUGH COOLING (SALINE)			1 830.00			
COOLING PONDS						
COOLING TOWERS	5 80.50					
COMBINATIONS[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1949 1958	1922 1961	1971	1935 1964	1967 1972	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	15.00	13.78 25.00	27.00	12.60 16.48	14.70 15.10	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	190.23	279.20	980.00	19.95	60.60	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		243.00	980.00		60.60	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)		1,711.00	12,000.00	538.00	240.00	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)	275.14					

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		79.00			13.75	
COST OF CHEMICAL ADDITIVES ($1,000)	25.50		4.00		.55	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		45.00			11.93	
COST OF CHEMICAL ADDITIVES ($1,000)	4.50	9.00	14.10		2.84	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	MARSHALL MUN UTILS	MARSHFIELD ELEC & WTR	MCPHERSON BD OF PUBLIC UTILS	MEDINA ELECTRIC COOP. INC.	MENASHA ELECTRIC & WTR UTILS	
NAME OF PLANT	MARSHALL	WILOWOOD	MCPHERSON #2	PEARSALL	MENASHA	
UTILITY-PLANT CODE	293000-0100	294000-0100	298500-0200	299500-0100	301000-0100	
STATE	MISSOURI	WISCONSIN	KANSAS	TEXAS	WISCONSIN	
COUNTY	SALINE	WOOD	MCPHERSON	FRIO	WINNEBAGO	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	071 10	236 07	094 10	219 12	237 04	
PLANT CAPACITY (MW)	48.20	41.50	27.20	75.00	29.68	
ANNUAL GENERATION (MWH)[3]	85,600	155,800	149,600	347,300	103,900	
PLANT HEAT RATE (BTU/KWH)[3]	14,948	13,850	15,822	12,555	14,012	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	9.46	88.38			38.72	
AVERAGE HEAT CONTENT (BTU/LB)	10,437	12,187			12,398	
AVERAGE SULFUR CONTENT (%)	5.76	3.22			2.01	
AVERAGE ASH CONTENT (%)	16.70	11.38			7.87	
AVERAGE MOISTURE CONTENT (%)	10.50	6.66			7.56	
OIL: CONSUMPTION (1,000 BARRELS)	140.00	1.15	12.82	36.25		
AVERAGE HEAT CONTENT (BTU/GAL)	136,220	137,584	159,000	144,000		
AVERAGE SULFUR CONTENT (%)	.10	.30	1.50	.59		
GAS: CONSUMPTION (1,000 MCF)	1,017.00	.14	2,398.95	4,394.36		
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,020	1,025	951	1,000		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	3	4	1	3	4	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION	1	2			4	
- NO. WITH MECHANICAL PRECIPITATORS	2	2			4	
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%). LOWEST BOILER - HIGHEST BOILER[5]						
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	10.00	20.00		1.50	38.30	
TESTED, LOW - HIGH	98.00	85.00			75.00	
ESTIMATED, LOW - HIGH	95.00	70.90				
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[5]: DESIGN, LOW - HIGH	85.00				75.00	
TESTED, LOW - HIGH						
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS[3]: PARTICULATE MATTER (1,000 TONS)	.71	3.59		.01	1.47	
SULFUR DIOXIDE (1,000 TONS)	1.07	5.58	.06	.07	2.31	
NITROGEN OXIDES (1,000 TONS)	.28	.67	.50	.94	.44	
STACKS: - TOTAL NO.	3	4	1	3	4	
- HEIGHT (FEET), LOWEST - HIGHEST[6]	162.50	235.00	75.00	68.00	92.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[7]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]	.02	8.90			4.11	
SOLD (1,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		21.00			2,310.00	
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)		38.00	25.00	24.00	6,500.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)					4.20	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]						
TOTAL BYPRODUCT SALES REVENUES ($1,000)					4.20	

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	M	O SURFACE	O WELL FIELD	LW	R FOX	
AVERAGE RATE OF WITHDRAWAL (CFS)		100.00	.50	1.25	42.70	
AVERAGE RATE OF DISCHARGE (CFS)		98.00	.16		42.70	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]		2.00	.33	1.25	.37	
PEAK LOAD MONTH : SUMMER - WINTER[15]		JAN	AUG JAN		AUG JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		70.00	56.00		80.00 38.00	
AT OUTFALL, SUMMER - WINTER		70.00	60.00		92.00 58.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						
- WINTER			.15		5,000.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]	M	H	C	C	C	
CHEMICAL ADDITIVES: PHOSPHATE (TONS)[1], COOLING WATER - BOILER MAKEUP		.35	.01	.01	.01	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP				.02	.01	
LIME (TONS), COOLING WATER - BOILER MAKEUP		9.00				
ALUM (TONS), COOLING WATER - BOILER MAKEUP			225.00			
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP			.90		.90	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]			YES		YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, DT[18]	PS	PS	PS	ST	PS	
RECEIVING WATER BODY			C TURKEY			
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING						
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)					4 29.18	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)		4 25.00				
COOLING TOWER(S)	3 26.50	1 18.50	1 27.20	3 66.00		
COMBINATION[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM						
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	1948 1967	1938 1968	1963	1960	1949 1964	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	15.00	15.00	20.00	15.40	20.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	9.00	33.18	6.20	140.37	94.90	
					48.80	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)						
COOLING PONDS ($1,000)		36.00				
COOLING TOWERS ($1,000)	191.30	65.00	100.00	608.22		

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)			28.69		700.00	
COST OF CHEMICAL ADDITIVES ($1,000)			6.45		85.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		39.34			100.00	
COST OF CHEMICAL ADDITIVES ($1,000)		14.49			40.00	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	METRO EDISON CO.	METRO EDISON CO.	METRO EDISON CO.	METRO EDISON CO.	MICHIGAN STATE UNIVERSITY	1
2							2
3							3
4	NAME OF PLANT	CRAWFORD	EYLER	PORTLAND	TITUS	PLANT #65	4
5	UTILITY-PLANT CODE	303500-0100	303500-0200	303500-0300	303500-0400	304500-0100	5
6	STATE	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	MICHIGAN	6
7	COUNTY	DAUPHIN	BERKS	NORTHAMPTON	BERKS	INGHAM	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	196 02	151 02	151 02	151 02	125 04	8
9	PLANT CAPACITY (MW)	116.70	84.00	426.70	225.00	25.00	9
10	ANNUAL GENERATION (MWH)[3]	260,100	127,700	2,385,100	1,611,800	135,123	10
11	PLANT HEAT RATE (BTU/KWH)[3]	15,368	19,325	9,825	10,325	29,204	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	108.00		930.00	675.00	48.70	12
13	AVERAGE HEAT CONTENT (BTU/LB)	12,660		12,473	12,224	12,639	13
14	AVERAGE SULFUR CONTENT (%)	1.21		1.53	.96	.98	14
15	AVERAGE ASH CONTENT (%)	10.70		11.35	11.97	9.70	15
16	AVERAGE MOISTURE CONTENT (%)	6.66		6.66	7.44	5.90	16
17	OIL: CONSUMPTION (1,000 BARRELS)	206.10	404.20	38.60	30.80		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	146,446	145,564	137,719	137,920		18
19	AVERAGE SULFUR CONTENT (%)	.71	.90	.15	.23		19
20	GAS: CONSUMPTION (1,000 MCF)					2,687.10	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)					1,000	21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	8	8	2	3	2	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	2	2		3		26
27	- NO. WITH COMBINATION PRECIPITATORS[4]			2		2	27
28	- NO. WITH DESULFURIZATION SYSTEMS			1			28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	15.00 26.00	4.00 20.00	22.00	23.00	10.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	94.00	90.00	99.00	99.00	97.00	33
34	TESTED, LOW - HIGH	85.90 93.50	76.00 78.40	97.30 98.20	93.00		34
35	EST., LOW - HIGH	90.00		97.30 98.00	93.00	75.00	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH			90.00			36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	1.01	.01	2.09	4.81	1.00	39
40	SULFUR DIOXIDE (1,000 TONS)	2.98	1.18	27.91	12.72	.94	40
41	NITROGEN OXIDES (1,000 TONS)	1.36	.86	8.46	6.14	.96	41
42	STACKS: - TOTAL NO.	3	2	2	3	1	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	200.00	242.00	400.00	200.00	275.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	10.50		103.50	76.00	2.99	45
46	SOLD (1,000 TONS)[11]	.30		31.40	9.60		46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	120.00	100.00		843.00		51
52	COMBINATION PRECIPITATORS ($1,000)[4]			1,355.00		150.00	52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	64.00	62.00	480.00	226.00	125.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	39.00		1,082.00	278.00	8.00	55
56	REVENUES FROM SALE OF ASH ($1,000)			13.50	16.00		56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	39.00		1,082.00	278.00	8.00	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	.30		13.50	16.00		60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R SUSQUEHANNA	R SCHUYLKILL	R DELAWARE	R SCHUYLKILL	W	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62.00	80.00	437.00	207.60	.25	62
63	AVERAGE RATE OF DISCHARGE (CFS)	62.00	80.00	437.00	207.50	.05	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.53	.59	3.74	1.79 .10	.20	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG JAN	AUG JAN	AUG JAN	AUG JAN		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	80.00 40.00	78.00 36.00	79.00 40.00	81.00 43.00		66
67	AT OUTFALL, SUMMER - WINTER	96.00 64.00	88.00 63.00	87.00 59.00	104.00 65.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	13,170.00	1,200.00	9,354.00			68
69	- WINTER	44,360.00	4,432.00	12,970.00	2,340.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, O, D[16]					C	70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	2.21	.18		.30	1.35	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.56	24.30	64.34			72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	8.59		4.60	38.51 .49		74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	13.75 1.25	3.00	27.00	49.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES YES	YES YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	PS	OT	OT	PS	77
78	RECEIVING WATER BODY	O FRENCH CRAIN	R SCHUYLKILL	R DELAWARE	R SCHUYLKILL		78
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	7.00	8.00	7.00 7.00	5.90	10.50	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		230.00			200.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING			173,000.00	105,000.00		82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	4 122.00	3 84.00	2 394.50	3 225.00		83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING POND(S)						85
86	COOLING TOWER(S)					2 25.00	86
87	COMBINATION[21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1924 1947	1919 1923	1958 1962	1951 1953	1965	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	10.00 18.00	15.00 19.00	15.00 19.00	20.00	20.20	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	362.00	145.00	468.00	246.60	48.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	364.00	148.00	486.00	246.60		91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	776.00	428.00	3,447.00	1,146.00		92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)					127.70	94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)					9.50	95
96	COST OF CHEMICAL ADDITIVES ($1,000)					6.67	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)					30.50	97
98	COST OF CHEMICAL ADDITIVES ($1,000)					15.10	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	MILLSTONE POINT COMPANY	MINOEN LT & WTR DEPT	MINNESOTA POWER & LIGHT CO.	MINNESOTA POWER & LIGHT CO.	MINNESOTA POWER & LIGHT CO.
4	NAME OF PLANT	MILLSTONE #1	MINOEN	AURORA	BOSWELL	HIBBARD
5	UTILITY-PLANT CODE	305000-0100	306000-0100	507000-0100	507000-0300	507000-0700
6	STATE	CONNECTICUT	LOUISIANA	MINNESOTA	MINNESOTA	MINNESOTA
7	COUNTY	NEW LONDON	WEBSTER	ST. LOUIS	ITASCA	ST. LOUIS
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	[illegible] 01	[illegible] 11	[illegible] 09	[illegible] 07	[illegible] 04
9	PLANT CAPACITY (MW)	661.50	25.00	110.00	500.00	124.50
10	ANNUAL GENERATION (MWH) [3]	1,877,500	90,800	452,300	2,007,400	350,300
11	PLANT HEAT RATE (BTU/KWH) [3]	10,800	13,406	13,030	10,321	14,576

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)			546.50	1,195.90	151.80
13	AVERAGE HEAT CONTENT (BTU/LB)			8,359	8,610	9,531
14	AVERAGE SULFUR CONTENT (%)			1.04	.93	1.25
15	AVERAGE ASH CONTENT (%)			10.16	9.40	9.22
16	AVERAGE MOISTURE CONTENT (%)			26.61	25.37	16.94
17	OIL: CONSUMPTION (1,000 BARRELS)	[illegible]	1.07	1.50	18.69	270.70
18	AVERAGE HEAT CONTENT (BTU/GAL)		138,000	157,000	137,000	150,801
19	AVERAGE SULFUR CONTENT (%)		.14	.55	.55	1.50
20	GAS: CONSUMPTION (1,000 MCF)		1,134.50			498.50
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,037			1,006

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.		2	2	5	4
23	- NO. OF WET BOTTOM					
24	- NO. WITH FLY ASH REINJECTION					
25	- NO. WITH MECHANICAL PRECIPITATORS			2	2	4
26	- NO. WITH ELECTROSTATIC PRECIPITATORS					
27	- NO. WITH COMBINATION PRECIPITATORS [4]					
28	- NO. WITH DESULFURIZATION SYSTEMS					
29	- EXCESS AIR USED (%), [illegible] - HIGHEST BOILER [5]		8.00	22.00	20.00	24.80
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, [illegible] - HIGH			85.00	85.50	85.80
31	TESTED, [illegible] - HIGH					
32	ESTIMATED, [illegible] - HIGH			97.80	85.50	85.00
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, [illegible] - HIGH					
34	TESTED, [illegible] - HIGH					
35	EST., [illegible] - HIGH					
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, [illegible] - HIGH					
37	TESTED, [illegible] - HIGH					
38	ESTIMATED, [illegible] - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)			.66	55.74	2.52
40	SULFUR DIOXIDE (1,000 TONS)			7.07	21.78	5.02
41	NITROGEN OXIDES (1,000 TONS)		.22	3.15	10.79	2.06
42	STACKS: - TOTAL NO.		2	1	2	3
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	[illegible]	[illegible]	500.00	[illegible] 400.00	[illegible] 345.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]					
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]			55.30	106.80	11.50
46	SOLD (1,000 TONS) [11]					
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]					
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			51.00	84.00	111.00
51	ELECTROSTATIC PRECIPITATORS ($1,000)					
52	COMBINATION PRECIPITATORS ($1,000) [4]					
53	DESULFURIZATION SYSTEMS ($1,000)					
54	STACKS ($1,000)			385.00	1,158.00	95.00
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)			55.20	149.00	10.00
56	REVENUES FROM SALE OF ASH ($1,000)					
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)					
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)					
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]			40.00	149.00	10.00
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)					

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	B NIANTIC	W	L COLBY	R MISSISSIPPI	R ST. LOUIS
62	AVERAGE RATE OF WITHDRAWAL (CFS)	1,023.00	.21	210.00	195.40	364.00
63	AVERAGE RATE OF DISCHARGE (CFS)	1,025.00	.15	210.00	184.40	564.00
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	[illegible]	.08	[illegible]	11.00	[illegible] 3.13
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL	AUG	AUG	AUG	AUG
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	[illegible] 69.00	[illegible]	[illegible]	[illegible]	[illegible]
67	AT OUTFALL, SUMMER - WINTER	[illegible] 181.00	[illegible]	[illegible]	[illegible]	[illegible]
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	1,[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
69	- WINTER	126,000.00	.14	50.20	1,873.00	1,477.00
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [16]					
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.01	.60	4.00	.76
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	54.00	.04	.60	181.74	.10
73	LIME (TONS), COOLING WATER - BOILER MAKEUP					
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP			8.38		
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	[illegible] 210.00	.75	[illegible] .73	[illegible] 22.00	[illegible] 14.00
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	PS	ST	ST	OT
78	RECEIVING WATER BODY		O OORGHEAT BAYOU	R PARTRIDGE	R MISSISSIPPI	R ST. LOUIS
79	POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	[illegible]	[illegible]	[illegible] 10.10 4.20	[illegible] 8.30 8.50	[illegible] 10.30 8.70
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	[illegible]	[illegible]	[illegible] .10 4.50	[illegible] .50 5.80	[illegible] 4.50 5.50
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
82	- ASH SETTLING			27,400.00	11,500.00	56,800.00

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20] ONCE THROUGH COOLING (FRESH)	1 661.50		2 116.10	2 150.00	4 124.50
84	ONCE THROUGH COOLING (SALINE)					
85	COOLING POND(S)					
86	COOLING TOWER(S)		2 25.20		1 550.00	
87	COMBINATION [21]					
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	[illegible] 1968	[illegible] 1966 1968	[illegible] 1953	[illegible] 1958 1975	[illegible] 1931 1951
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	21.50	15.00	14.00	13.50 28.90	15.00 26.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	955.00	60.00	186.00	480.00	556.40
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	935.00		210.00	240.00	364.00

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)			428.00	1,200.00	408.00
93	COOLING PONDS ($1,000)					
94	COOLING TOWERS ($1,000)		141.00		904.00	

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	100.00	5.00	55.00	91.50	52.50
96	COST OF CHEMICAL ADDITIVES ($1,000)	17.85	5.00	.54	41.10	10.00

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	23.00	1.00	15.00	16.50	24.50
98	COST OF CHEMICAL ADDITIVES ($1,000)	4.80	1.00	3.00	38.30	5.00

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	NINNKOTA POWER COOP.	MISSISSIPPI POWER CO.	MISSISSIPPI POWER CO.	MISSISSIPPI POWER CO.	MISSISSIPPI POWER & LIGHT CO.	
4	NAME OF PLANT	YOUNG	EATON	SWEATT	WATSON	WILSON	
5	UTILITY-PLANT CODE	30T500-0550	308000-0100	308000-0300	308000-0400	308500-0100	
6	STATE	NORTH DAKOTA	MISSISSIPPI	MISSISSIPPI	MISSISSIPPI	MISSISSIPPI	
T	COUNTY	OLIVER	FORREST	LAUDERDALE	HARRISON	WARREN	
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	172 10	005 03	005 03	005 03	005 08	
9	PLANT CAPACITY (MW)	256.50	TT.63	136.85	1,215.35	1,32T.60	
10	ANNUAL GENERATION (MWH)[3]	1,T24,300	226,300	396,100	3,92(,200	3,2TO,T00	
11	PLANT HEAT RATE (BTU/KWH)[3]	11,361	16,04T	13,322	10,105	10,622	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	1,49T.30			1,184.80		
13	AVERAGE HEAT CONTENT (BTU/LB)	6,533			11,885		
14	AVERAGE SULFUR CONTENT I%)	.69			2.TO		
15	AVERAGE ASH CONTENT I%)	T.85			10.88		
16	AVERAGE MOISTURE CONTENT (%)	3T.58			9.09		
1T	OIL: CONSUMPTION (1,000 BARRELS)	3.08	350.30	403.TO	594.60	2,951.30	
18	AVERAGE HEAT CONTENT (BTU/GAL)	140,000	153,000	151,223	138,526	141,089	
19	AVERAGE SULFUR CONTENT I%)	.30	2.20	1.90	.30	.20	
20	GAS: CONSUMPTION 11,000 MCF)		1,403.90	2,859.80	8,414.TO	16,8T1.34	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		981	1,129	1,043	1,021	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	1	3	2	5	2	
23	- NO. OF WET BOTTON	1					
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS	1					
26	- NO. WITH ELECTROSTATIC PRECIPITATORS				2		
2T	- NO. WITH CONBINATION PRECIPITATORS[4]						
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	28.00	10.00	1T.00	11.00 20.00	6.00 8.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	TO.00					
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH	T3.00					
33	ELECTROSTATIC/CONBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH				98.00 99.00		
34	TESTED, LOW - HIGH				9T.30		
35	EST., LOW - HIGH				9T.30 99.00		
36	DESULFURIZATION SYSTEN EFFICIENCY : DESIGN, LOW - HIGH						
3T	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	3.1T	.06	.0T	1.66	.50	
40	SULFUR OIOKIDE 11,000 TONS)	20.25	2.59	2.5T	63.30	(.98	
41	NITROGEN OKIDES)(,000 TONS)	41.18	1.05	1.45	13.62	9.99	
42	STACKS: - TOTAL NO.	1	2	1	5	3	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	300.00	125.00	1T5.00	169.00 400.00	236.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	114.00			128.90		
46	SOLD (1,000 TONS)[11]						
47	TOTAL SULFUR: ELEMENTAL COLLECTED)(,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED ((,000 TONS)[12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS I$(,000)	220.00					
51	ELECTROSTATIC PRECIPITATORS ($1,000)				2,121.TO		
52	COMBINATION PRECIPITATORS ($1,000)[4]						
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	368.00	39.00	49.00	1,088.50		
55	ASH COLLECTION AND DISPOSAL EXPENSES I$(,000)	46.00			1T6.80		
56	REVENUES FROM SALE OF ASH I$1,000)						
5T	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES I$1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS I$1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES)$(,000)[13]	46.00			1T6.80		
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	C SQUARE BUTTE	R LEAF	W	B BILOXI BAY EST	R MISSISSIPPI	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	10.00	1T8.00		1,11T.TO	1,02T.00	
63	AVERAGE RATE OF DISCHARGE (CFS)	T.00	1T8.00		1,11T.TO	1,02T.00	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	3.00	1.53			8.83	
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	SEP JAN	JUL NOV	JUL NOV	JUL NOV	JUL JAN	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	80.90 31.00	88.90 TO.00		89.00 64.00	85.00 44.00	
6T	AT OUTFALL, SUMMER - WINTER	82.00 34.00	90.00 89.00		104.TO 80.50	113.00 59.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		1,360.00		436.00	613,000.00	
69	- WINTER	.50	1,630.00		1,190.00	1,106,000.00	
TO	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OT[16]						
T1	CHEMICAL ADDITIVES: PHOSPHATE ITONS), COOLING WATER - BOILER MAKEUP	.20	.05	.08	1.10		
T2	CAUSTIC SODA)TONS), COOLING WATER - BOILER MAKEUP	85.00	58.6T		2.48	2TO.31	
T3	LIME (TONS), COOLING WATER - BOILER MAKEUP	35.00		6.25			
T4	ALUM (TONS), COOLING WATER - BOILER MAKEUP	5.00					
T5	CHLORINE ITONS), COOLING WATER - BOILER MAKEUP	.50	90.00			.45	
T6	OTHER)YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES YES	YES YES	YES	
TT	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[17]	OT	ST	ST	ST	OT	
T8	RECEIVING WATER BODY	C SQUARE BUTTE				R MISSISSIPPI	
T9	POND DISCHARGE[18]: PH, BOILER BLOWDOWN - ASH SETTLING				9.00		
80	SUSPENDED SOLIDS)PPM), BOILER BLOWDOWN - ASH SETTLING						
81	VOLUME 11,000 CUFT/YR), BOILER BLOWDOWN				.10		
82	- ASH SETTLING						

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[19]: ONCE THROUGH COOLING (FRESH)		3 TT.64			2 1,32T.60	
84	ONCE THROUGH COOLING (SALINE)				4 595.50		
85	COOLING PONDS(S)	(256.50					
86	COOLING TOWER(S)			2 95.00			
8T	CONBINATION[20]				1 5T8.00		
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	196T	1945 1949	1951 - 1953	1957 19T3	1966 19T1	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[21]	20.00	13.80	15.TO	13.TO 19.95	28.00 28.30	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	250.00	1T1.00	145.60	1,035.00	896.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		177.00		1,135.20	916.00	

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS I$1,000)		248.00		5,880.40	6,190.20	
93	COOLING PONDS ($1,000)	850.00					
94	COOLING TOWERS)$1,000)			739.00			

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES I$(,000)	T.00	10.TO	31.40	26.40	139.00	
96	COST OF CHEMICAL ADDITIVES ($1,000)	2.50	1.40	24.90	24.30		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	12.00	11.50	6.10	41.60	20.00	
98	COST OF CHEMICAL ADDITIVES ($1,000)	52.00	10.50	.50	30.80	38.60	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	MISSISSIPPI POWER & LIGHT CO.	MISSISSIPPI POWER & LIGHT CO.	MISSISSIPPI POWER & LIGHT CO.	MISSOURI PUBLIC SERVICE CO.	MISSOURI PUBLIC SERVICE CO.
4	NAME OF PLANT	DELTA	NATCHEZ	BROWN	GREEN	SIBLEY
5	UTILITY-PLANT CODE	308500-0300	308500-0400	308500-0500	309500-0400	309500-0700
6	STATE	MISSISSIPPI	MISSISSIPPI	MISSISSIPPI	MISSOURI	MISSOURI
7	COUNTY	BOLIVAR	ADAMS	HINDS	CASS	JACKSON
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	134 08	005 08	005 08	094 10	094 10
9	PLANT CAPACITY (MW)	220.50	66.00	383.20	49.50	518.50
10	ANNUAL GENERATION (MWH) [3]	718,500	183,500	790,000	148,900	1,798,500
11	PLANT HEAT RATE (BTU/KWH) [3]	11,506	12,366	13,104	14,478	10,877

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)					10.00	805.00
13	AVERAGE HEAT CONTENT (BTU/LB)				11,414		11,689
14	AVERAGE SULFUR CONTENT (%)				3.73		3.61
15	AVERAGE ASH CONTENT (%)				8.26		11.87
16	AVERAGE MOISTURE CONTENT (%)				8.98		7.87
17	OIL: CONSUMPTION (1,000 BARRELS)	321.46	119.21	249.71			
18	AVERAGE HEAT CONTENT (BTU/GAL)	153,550	151,956	146,830			
19	AVERAGE SULFUR CONTENT (%)	2.43	2.42	2.59			
20	GAS: CONSUMPTION (1,000 MCF)	6,046.02	1,601.62	8,566.00	1,886.00		
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,023	942	1,033	1,022		

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2	1	4	2	3	
23	- NO. OF WET BOTTOM					3	
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS						
26	- NO. WITH ELECTROSTATIC PRECIPITATORS				2		
27	- NO. WITH COMBINATION PRECIPITATORS [4]					3	
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]						
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	1.50	17.00	8.00 17.00	17.00	15.00	
31	TESTED, LOW - HIGH				94.00		
32	ESTIMATED, LOW - HIGH						
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH				90.00		
34	TESTED, LOW - HIGH					99.00 99.30	
35	EST., LOW - HIGH					88.70 93.00	
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.05	.02	.04	.07	.97	
40	SULFUR DIOXIDE (1,000 TONS)	2.62	.97	2.13	.73	56.96	
41	NITROGEN OXIDES (1,000 TONS)	1.89	.58	2.22	.46	22.14	
42	STACKS: - TOTAL NO.	4	2	4	2	3	
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	130.00	141.00	150.00	150.00	183.00 700.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	.01					
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]				.77	92.30	
46	SOLD (1,000 TONS) [11]					38.70	
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				75.00		
51	ELECTROSTATIC PRECIPITATORS ($1,000)					3,507.00	
52	COMBINATION PRECIPITATORS ($1,000) [4]						
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	60.00	33.00	92.29	40.00	1,184.00	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						
56	REVENUES FROM SALE OF ASH ($1,000)						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)					19.35	
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	1.87					
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)					19.35	

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O PUNO	W	R PEARL	L BIG CREEK	R MISSOURI	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	6.13	1.20	200.51	2.00	418.00	
63	AVERAGE RATE OF DISCHARGE (CFS)			200.51		418.00	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	6.13	1.20		2.00	3.59	
65	PEAK LOAD MONTH : SUMMER - WINTER [15]				AUG JAN	AUG JAN	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER					80.00 40.00	
67	AT OUTFALL, SUMMER - WINTER					100.00 70.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						
69	- WINTER						
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [16]			H			
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.35	2.90 .08	.95	.75 .25		
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	4.05		38.10	.80		
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		67.36	4.03			
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		1.43	13.00	2.25		
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES YES	YES	YES YES		
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	ST	PS	ST	ST	
78	RECEIVING WATER BODY		C ST. CATHERINE				
79	POND DISCHARGE? [19] PH, BOILER BLOWDOWN - ASH SETTLING						
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
82	- ASH SETTLING					7,250.00	

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)					3 518.50	
84	ONCE THROUGH COOLING (SALINE)						
85	COOLING PONDS(S)			2 304.70			
86	COOLING TOWER(S)		1 66.00	2 78.50	2 49.50		
87	COMBINATION [21]	2 220.50					
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1953	1951	1949 1959	1954 1958	1960 1969	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	12.00	14.00	15.60 18.00	18.00	17.50 19.20	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	308.00	109.20	508.90	80.00	521.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	308.00				526.00	

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)						
93	COOLING PONDS ($1,000)	380.00					
94	COOLING TOWERS ($1,000)	595.50 17.18	250.00	2,432.00 485.60	452.00		

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	14.00	40.00	338.10			
96	COST OF CHEMICAL ADDITIVES ($1,000)	3.00	23.79	2.20			

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	4.00	1.00	3.30			
98	COST OF CHEMICAL ADDITIVES ($1,000)	3.50	1.08	5.50			

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	MONONGAHELA (ALLEGHENY) POWER CO.	MONONGAHELA (ALLEGHENY) POWER CO.	MONONGAHELA (ALLEGHENY) POWER CO.	MONONGAHELA (ALLEGHENY) POWER CO.	MONONGAHELA (ALLEGHENY) POWER CO.	
4	NAME OF PLANT	ALBRIGHT	FORT MARTIN	RIVESVILLE	WILLOW ISLAND	HARRISON	
5	UTILITY-PLANT CODE	3110000-0100	3110000-0200	3110000-0300	3110000-0400	3110000-0500	
6	STATE	WEST VIRGINIA	WEST VIRGINIA	WEST VIRGINIA	WEST VIRGINIA	WEST VIRGINIA	
7	COUNTY	PRESTON	MONONGALIA	MARION	PLEASANTS	HARRISON	
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	235 OS	235 OS	235 OS	179 OS	235 OS	
9	PLANT CAPACITY (MW)	278.25	1,152.00	109.75	215.00	1,368.00	
10	ANNUAL GENERATION (MWH) [3]	2,018,100	7,148,700	898,200	1,435,300	2,302,600	
11	PLANT HEAT RATE (BTU/KWH) [3]	11,305	9,307	13,620	10,721	9,544	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	972.60	2,750.10	488.40	683.90	889.90	
13	AVERAGE HEAT CONTENT (BTU/LB)	11,757	12,100	12,484	11,238	12,246	
14	AVERAGE SULFUR CONTENT (%)	2.09	2.41	3.44	3.82	4.05	
15	AVERAGE ASH CONTENT (%)	15.84	13.30	13.58	17.36	15.31	
16	AVERAGE MOISTURE CONTENT (%)	6.47	6.42	3.48	5.92	2.95	
17	OIL: CONSUMPTION (1,000 BARRELS)	3.61	10.16	.90	3.15	31.80	
18	AVERAGE HEAT CONTENT (BTU/GAL)	139,000	139,000	139,000	139,000	141,000	
19	AVERAGE SULFUR CONTENT (%)	.03	.03	.25	.25	.03	
20	GAS: CONSUMPTION (1,000 MCF)			323.93		16.92	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)			522		1,000	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	3	2	4	2	2	
23	- NO. OF WET BOTTOM			2	1		
24	- NO. WITH FLY ASH REINJECTION				1		
25	- NO. WITH MECHANICAL PRECIPITATORS	2		4	1		
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		2		1	2	
27	- NO. WITH COMBINATION PRECIPITATORS [4]	1					
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	20.00	20.00	39.00 45.00	20.00	25.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	83.60			85.00		
31	TESTED, LOW - HIGH	83.00		56.00 70.00	59.00		
32	ESTIMATED, LOW - HIGH	83.00		56.00 70.00	59.00		
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	97.50	99.00		90.00	99.50	
34	TESTED, LOW - HIGH	93.00	99.40		73.00		
35	EST., LOW - HIGH	93.00	99.40		73.00	99.50	
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	16.38	2.50	27.29	9.53	.58	
40	SULFUR DIOXIDE (1,000 TONS)	39.84	129.90	32.93	51.21	70.64	
41	NITROGEN OXIDES (1,000 TONS)	8.76	24.77	5.15	16.79	8.08	
42	STACKS: - TOTAL NO.	3	2	6	2	2	
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	128.00 225.00	550.00	152.00 190.00	138.00 216.00	1,000.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]				.30		
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	124.20	450.00	71.20	91.50	132.40	
46	SOLD (1,000 TONS) [11]	.60	2.40		2.50	9.40	
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	424.00		465.00	120.00		
51	ELECTROSTATIC PRECIPITATORS ($1,000)		4,121.00		407.00	4,725.00	
52	COMBINATION PRECIPITATORS ($1,000) [4]	673.00					
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	202.00	1,531.00	26.00	156.00	7,000.00	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	141.00	234.00	92.90	75.10	41.80	
56	REVENUES FROM SALE OF ASH ($1,000)	.40	2.00		.50	1.50	
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	141.00	234.00	92.90	75.10	41.80	
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	.40	2.00		.50	1.50	

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R CHEAT	R MONONGAHELA	R MONONGAHELA	R OHIO	R WEST FORK	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	265.00	23.30	193.50	230.00	29.13	
63	AVERAGE RATE OF DISCHARGE (CFS)	264.50	9.55	193.45	229.83	20.20	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	1.80	13.75	1.84 .86	1.98 1.32	8.93	
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG OEC	AUG OEC	AUG OEC	AUG OEC	AUG OEC	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	88.00 53.00		87.00 49.00	85.00 48.00		
67	AT OUTFALL, SUMMER - WINTER	112.00 75.00		110.00 67.00	101.00 64.00		
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		12,180.00	12,180.00	12,000.00	495.00	
69	- WINTER	3,460.00	6,429.00	6,010.00	70,000.00	1,575.00	
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, O, O [16]				C		
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.05		3.45	.35		
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	47.00	137.12 228.31	138.50	.50	305.07	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP			.80	17.00	15.00 52.00	
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	6.30	24.00	3.30		45.00	
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.83	12.00 .14	.25	4.00 1.35	12.00 .06	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, O [18]	ST	ST/OT	PS	ST	OT	
78	RECEIVING WATER BODY	R CHEAT	R MONONGAHELA		R OHIO	R WEST FORK	
79	POND DISCHARGE [19]: PH, BOILER BLOWDOWN - ASH SETTLING		6.30	6.50		8.90	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		93.00	69.00		10.00	
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING						
82			77,300.00	115,949.99		433.19	

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	3 304.00		6 214.00	2 245.00		
84	ONCE THROUGH COOLING (SALINE)						
85	COOLING POND(S)						
86	COOLING TOWER(S)		2 1,102.00			2 1,300.00	
87	COMBINATION [20]						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1952 1954	1967 1968	1919 1951	1949 1960	1972	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [21]	22.00	24.00	12.00 23.00	16.00 21.00	30.42	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	341.90	1,114.00	366.70	270.70	802.12	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	346.00	1,120.00	367.00	297.00		

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	965.00		475.00	1,205.00		
93	COOLING PONDS ($1,000)						
94	COOLING TOWERS ($1,000)	710.00	9,724.00			8,994.00	

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	70.50	372.60	45.80	38.60	166.00	
96	COST OF CHEMICAL ADDITIVES ($1,000)		13.20	.70	.50	7.30	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	24.90	80.80	31.90	46.00	95.30	
98	COST OF CHEMICAL ADDITIVES ($1,000)	8.20	59.20	12.00	5.00	164.00	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	MONROE, CITY OF	MONTANA-DAKOTA UTIL. CO.	MONTANA-DAKOTA UTIL. CO.	MONTAUP ELECTRIC CO.	MORGAN CITY, CITY OF	
NAME OF PLANT	MONROE	HESKETT	LEWIS & CLARK	SOMERSET	MORGAN CITY	
UTILITY-PLANT CODE	312000-0100	313000-0500	313000-0900	314000-0100	324250-0100	
STATE	LOUISIANA	NORTH DAKOTA	MONTANA	MASSACHUSETTS	LOUISIANA	
COUNTY	OUACHITA	MORTON	RICHLAND	BRISTOL	ST. MARY	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	[illegible] 08	[illegible] 10	[illegible] 10	[illegible] 01	[illegible] 08	
PLANT CAPACITY (MW)	165.99	100.00	50.00	325.00	33.42	
ANNUAL GENERATION (MWH)[3]	450,300	575,900	319,100	1,727,600	131,616	
PLANT HEAT RATE (BTU/KWH)[3]	12,176	13,182	12,616	11,674	13,328	
AIR QUALITY CONTROL DATA						
FUEL CONSUMPTION DATA (ANNUAL)						
COAL: CONSUMPTION (1,000 TONS)		540.40	305.20			
AVERAGE HEAT CONTENT (BTU/LB)		T,002	6,518			
AVERAGE SULFUR CONTENT (%)		.6T	.57			
AVERAGE ASH CONTENT (%)		6.67	8.38			
AVERAGE MOISTURE CONTENT (%)		35.68	37.45			
OIL: CONSUMPTION (1,000 BARRELS)				3,293.60		
AVERAGE HEAT CONTENT (BTU/GAL)				146,090		
AVERAGE SULFUR CONTENT (%)				.75		
GAS: CONSUMPTION (1,000 MCF)	5,483.06		43.70		1,753.90	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,000		1,040		1,000	
PLANT EQUIPMENT DATA						
BOILERS: - TOTAL NO.	7	2	1	6	3	
- NO. OF WET BOTTOM				1		
- NO. WITH FLY ASH REINJECTION		2				
- NO. WITH MECHANICAL PRECIPITATORS		2	1	2		
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]						
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, [illegible] - HIGH	8.00	30.00	25.00	40.00	3.00	
TESTED, [illegible] - HIGH		90.00	85.70	88.50		
ESTIMATED, [illegible] - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, [illegible] - HIGH						
TESTED, [illegible] - HIGH		90.00	85.70	85.00		
EST., [illegible] - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, [illegible] - HIGH						
TESTED, [illegible] - HIGH						
ESTIMATED, [illegible] - HIGH						
PLANT OPERATING DATA AND COST OF EQUIPMENT						
EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)		6.27	3.11	.27		
SULFUR OIOXIOE (1,000 TONS)		7.10	3.41	8.29		
NITROGEN OXIOES (1,000 TONS)	1.07	4.05	2.76	7.27	.34	
STACRS: - TOTAL NO.	7	2	1	4	3	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	80.00	125.00	200.00	332.00	60.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]				.08		
TOTAL ASH: COLLECTED (1,000 TONS)[10]		32.40	20.80	.11		
SOLD (1,000 TONS)[11]			4.40			
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		95.60	49.00	143.80		
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACRS ($1,000)						
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		92.90	43.20	174.30		
REVENUES FROM SALE OF ASH ($1,000)		40.50	26.40	1.00		
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)			4.40			
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		95.10	70.90	12.10		
TOTAL BYPRODUCT SALES REVENUES ($1,000)			4.40			
WATER QUALITY CONTROL DATA						
COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R OUACHITA	R MISSOURI	R YELLOWSTONE	R TAUNTON	N	
AVERAGE RATE OF WITHDRAWAL (CFS)	163.00	62.20	40.00	362.00		
AVERAGE RATE OF DISCHARGE (CFS)	163.00	62.10	39.90	362.00		
AVE. RATE OF CONSUMPTION (CFS), [illegible] - REPORTED[14]	[illegible]	.10	.10	[illegible]		
PEAK LOAD MONTH : [illegible] - WINTER[15]	AUG	JAN	JAN	JAN	OCT	FEB
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, [illegible] - WINTER	[illegible]	33.00	33.00	38.00		
AT OUTFALL, [illegible] - WINTER	[illegible]	84.00	67.00	60.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): [illegible] - WINTER						
		28,190.00	8,420.00	130,000.00		
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), [illegible] - BOILER MAKEUP	.42	.20	.03	1.00	.70	
CAUSTIC SODA (TONS), [illegible] - BOILER MAKEUP		.42	.06	1.40	6.00	
LIME (TONS), [illegible] - BOILER MAKEUP		10.38	9.70			
ALUM (TONS), [illegible] - BOILER MAKEUP			1.18			
CHLORINE (TONS), [illegible] - BOILER MAKEUP		.59	.31			
OTHER (YES/NO), [illegible] - BOILER MAKEUP	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD (PS, ST, SW, OT)[17]	PS	OT	OT	ST	PS	
RECEIVING WATER BODY				R TAUNTON		
POND DISCHARGE[18]: PH, [illegible] - ASH SETTLING				T.00		
SUSPENDED SOLIDS (PPM), [illegible] - ASH SETTLING						
VOLUME (1,000 CUFT/YR), [illegible] - ASH SETTLING			2,300.00	3.75		
COOLING FACILITY DATA						
NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	7 165.90	2 100.00	1 50.00		3 32.50	
ONCE THROUGH COOLING (SALINE)				6 344.00		
COOLING PONDS						
COOLING TOWERS						
COMBINATION[19]						
COOLING SYSTEM, YEAR OF INSTALLATION: [illegible] - NEWEST SYSTEM	[illegible] 1968	[illegible] 1963	[illegible] 1958	[illegible] 1959	[illegible] 1969	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), [illegible] - LARGEST[20]	4.00	28.30	25.00	19.15	20.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	329.90	98.70	49.00	552.00	23.08	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	329.90	98.70	49.00	517.00		
CAPITAL COSTS OF COOLING FACILITIES						
ONCE THROUGH COOLING SYSTEMS ($1,000)						
COOLING PONDS ($1,000)		692.80	993.70	853.72	-	
COOLING TOWERS ($1,000)					86.00	
ANNUAL COOLING WATER EXPENSES						
OPERATION AND MAINTENANCE EXPENSES ($1,000)		18.30	27.50	118.30		
COST OF CHEMICAL ADDITIVES ($1,000)	2.70			3.40	7.90	
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
OPERATION AND MAINTENANCE EXPENSES ($1,000)	9.10	21.50	15.80	3.80		
COST OF CHEMICAL ADDITIVES ($1,000)	7.70	2.50	1.50	2.00	2.80	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	1	MUSCATINE, CITY OF		NEW BEOFORO GAS & EDISON LIGHT CO.		N. W. ELECTRIC POWER COOP. INC.		NATCHITOCHES, CITY OF		NEBRASKA PUBLIC POWER SYS.	1
2		2										2
3		3										3
4	NAME OF PLANT	4	MUSCATINE		CANNON		MISSOURI CITY		NATCHITOCHES		KRAMER	4
5	UTILITY-PLANT CODE	5	326000-0100		327000-0100		327500-0100		330000-0100		331500-0400	5
6	STATE	6	IOWA		MASSACHUSETTS		MISSOURI		LOUISIANA		NEBRASKA	6
7	COUNTY	7	MUSCATINE		BRISTOL		CLAY		NATCHITOCHES		SARPY	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	8	069 07		120 01		094 10		022 11		085 10	8
9	PLANT CAPACITY (MW)	9	124.00		83.00		40.00		44.00		113.50	9
10	ANNUAL GENERATION (MWH)[3]	10	604,200		324,700		17,800		125,172		460,100	10
11	PLANT HEAT RATE (BTU/KWH)[3]	11	11,004		14,571		16,144		13,299		12,494	11
	AIR QUALITY CONTROL DATA											
	FUEL CONSUMPTION DATA (ANNUAL)											
12	COAL: CONSUMPTION (1,000 TONS)	12	217.01								157.80	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	10,712								11,050	13
14	AVERAGE SULFUR CONTENT (%)	14	3.09								1.19	14
15	AVERAGE ASH CONTENT (%)	15	10.22								9.14	15
16	AVERAGE MOISTURE CONTENT (%)	16	6.63								12.13	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17			728.90		46.16					17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18			146,045		150,365					18
19	AVERAGE SULFUR CONTENT (%)	19			.87		1.84					19
20	GAS: CONSUMPTION (1,000 MCF)	20	1,991.42		260.20				1,734.44		2,264.20	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,000		1,000				960		998	21
	PLANT EQUIPMENT DATA											
22	BOILERS: - TOTAL NO.	22	4		12		2		3		4	22
23	- NO. OF WET BOTTOM	23	4				2					23
24	- NO. WITH FLY ASH REINJECTION	24	4									24
25	- NO. WITH MECHANICAL PRECIPITATORS	25	3		2		2				4	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	1		3							26
27	- NO. WITH COMBINATION PRECIPITATORS[4]	27										27
28	- NO. WITH DESULFURIZATION SYSTEMS	28										28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	29	12.00	65.00	14.00	35.00		20.00		10.00		25.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30	60.00	90.00		95.00		80.00				83.00	30
31	TESTED, LOW - HIGH	31				95.00		52.00			59.80	66.70	31
32	ESTIMATED, LOW - HIGH	32	60.00	90.00		95.00						75.00	32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	33		94.50		94.00							33
34	TESTED, LOW - HIGH	34		95.14									34
35	EST., LOW - HIGH	35		94.50	83.00	91.00							35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36											36
37	TESTED, LOW - HIGH	37											37
38	ESTIMATED, LOW - HIGH	38											38
	PLANT OPERATING DATA AND COST OF EQUIPMENT											
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	39	1.18		.03						3.06	39
40	SULFUR OIOX(OE (1,000 TONS)	40	13.14		2.13		.28				3.68	40
41	NITROGEN OXIDES (1,000 TONS)	41	5.54		1.66		.10		.34		1.86	41
42	STACKS: - TOTAL NO.	42	4		6		2		3		2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	43	115.00	225.10	175.00	250.00		130.00	45.00	60.00		252.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	44				.10							44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	45		21.00		.20						14.20	45
46	SOLD (1,000 TONS)[11]	46				.10						2.40	46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47											47
48	EQUIVALENT OF AC10 COLLECTED (1,000 TONS)[12]	48											48
49	ELEMENTAL AND EQUIVALENT OF AC10 SOLD (1,000 TONS)	49											49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50			7.60		20.00				665.00		50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51	136.00		166.40								51
52	COMBINATION PRECIPITATORS ($1,000)[4]	52											52
53	DESULFURIZATION SYSTEMS ($1,000)	53											53
54	STACKS ($1,000)	54	47.40		122.00		20.00				86.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55	10.47		15.00		.01				20.30		55
56	REVENUES FROM SALE OF ASH ($1,000)	56			.30								56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57											57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58											58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	59	10.47		27.00		.01				20.30		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60			.30						.20		60
	WATER QUALITY CONTROL DATA											
61	COOLING WATER: SOURCE[14](CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R MISSISSIPPI		R ACUSHNET		R MISSOURI		L TREATED LAKE		R MISSOURI		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62		210.00		91.50		57.93				165.22	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63		210.00		91.50		57.93				165.20	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[15]	64	1.81		.79		.50				1.42	.02	64
65	PEAK LOAD MONTH : SUMMER - WINTER[16]	65	AUG	OEC	AUG	JAN	JUL	JAN			JUL	JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	80.00	56.00	78.00	43.00	83.00	31.00			80.00	33.00	66
67	AT OUTFALL, SUMMER - WINTER	67	92.00	68.00	96.00	58.00	88.00	40.00			88.00	44.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68						67,800.00				34,100.00	68
69	- WINTER	69						60,980.00				25,200.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, O, OT[17]	70	H		C						C		70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		1.10		.11		.15	3.23	.32		.44	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		.32		.22		.60		.33			72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73						4.50				127.15	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74										34.40	74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	42.00		26.84	.25		.15			16.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[18]	76		YES		YES		YES		YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[19]	77	PS		PS		ST		PS		PS		77
78	RECEIVING WATER BODY	78									R MISSOURI		78
79	POND DISCHARGE[20]: PH, BOILER BLOWDOWN - ASH SETTLING	79					6.50	6.00			8.70	11.80	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80					2,000.00	250.00			70.00		80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81						95.00				182.50	81
82	- ASH SETTLING	82						314.00					82
	COOLING FACILITY DATA												
83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	83	4	108.00			2	40.00			3	112.50	83
84	ONCE THROUGH COOLING (SALINE)	84			6	120.50							84
85	COOLING POND(S)	85											85
86	COOLING TOWER(S)	86							3	44.88			86
87	COMBINATION[21]	87											87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1941	1969	1917	1950		1953	1962	1972	1949	1951	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	89		15.00		15.00		12.00	14.00	18.00		9.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		167.10		242.10		105.34		101.05		306.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		314.20		444.60		52.21				321.00	91
	CAPITAL COSTS OF COOLING FACILITIES												
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92	258.00		430.80		725.70				1,000.00		92
93	COOLING PONDS ($1,000)	93											93
94	COOLING TOWERS ($1,000)	94											94
	ANNUAL COOLING WATER EXPENSES												
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95	20.00		7.00		36.40		2.70		11.00		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96	5.29		.90				3.23		4.20		96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES												
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97	16.23		12.50		3.80		1.35		11.00		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	3.50		10.20				1.14		13.20		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	NEBRASKA PUBLIC POWER SYS.	NEVADA POWER CO.	NEVADA POWER CO.	NEVADA POWER CO.	NEW ENGLAND POWER CO.	
NAME OF PLANT	LINCOLN	CLARK	GARDNER	SUNRISE	BRAYTON	
UTILITY-PLANT CODE	331500-0500	333000-0100	333000-0300	333000-0500	334000-0200	
STATE	NEBRASKA	NEVADA	NEVADA	NEVADA	MASSACHUSETTS	
COUNTY	LANCASTER	CLARK	CLARK	CLARK	BRISTOL	
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	[illegible] 10	[illegible] 15	[illegible] 15	[illegible] 15	[illegible] 01	
PLANT CAPACITY (MW)	30.00	190.28	227.27	81.60	1,140.00	
ANNUAL GENERATION (MWH) 3/	37,900	1,198,000	1,493,300	514,800	7,346,100	
PLANT HEAT RATE (BTU/KWH) 3/	30,008	11,190	10,288	10,198	9,169	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	15.90		618.28			
AVERAGE HEAT CONTENT (BTU/LB)	11,015		12,411			
AVERAGE SULFUR CONTENT (%)	1.64		.58			
AVERAGE ASH CONTENT (%)	8.82		8.22			
AVERAGE MOISTURE CONTENT (%)	10.91		6.54			
OIL: CONSUMPTION (1,000 BARRELS)	10.80	118.09	4.25	79.11	10,894.80	
AVERAGE HEAT CONTENT (BTU/GAL)	154,294	150,917	137,381	147,942	147,182	
AVERAGE SULFUR CONTENT (%)	2.00	.32	.25	.31	.81	
GAS: CONSUMPTION (1,000 MCF)	717.40	12,929.93		4,347.10		
AVERAGE HEAT CONTENT (BTU/CU.FT.)	993	1,081		1,082		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	3	3	2	1	3	
- NO. OF WET BOTTOM	1		2		3	
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS	2		2			
- NO. WITH ELECTROSTATIC PRECIPITATORS					3	
- NO. WITH COMBINATION PRECIPITATORS 4/						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	[illegible] 17.00	[illegible] 9.50	[illegible] 18.00	[illegible] 8.00	[illegible] 13.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00		88.10			
TESTED, LOW - HIGH			71.65 73.78			
ESTIMATED, LOW - HIGH	85.00		80.00			
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH					98.40 99.00	
TESTED, LOW - HIGH					85.10 99.30	
EST., LOW - HIGH					85.00 90.00	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.22	.02	6.61	.01	.23	
SULFUR DIOXIDE (1,000 TONS)	.70	.11	7.03	.08	29.61	
NITROGEN OXIDES (1,000 TONS)	.34	2.52	9.29	1.03	24.02	
STACKS: - TOTAL NO.	2	3	2	1	3	
- HEIGHT (FEET), LOWEST - HIGHEST 8/	[illegible] 207.00	[illegible] 156.00	[illegible] 200.00	[illegible] 135.00	[illegible] 352.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/					1.22	
TOTAL ASH: COLLECTED (1,000 TONS) 10/	1.40		38.73		4.20	
SOLD (1,000 TONS) 11/			3.09		6.20	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	109.00		93.00			
ELECTROSTATIC PRECIPITATORS ($1,000)					2,182.00	
COMBINATION PRECIPITATORS ($1,000) 4/						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	40.00	77.00	245.00	26.00	896.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	6.50					
REVENUES FROM SALE OF ASH ($1,000)			3.09			
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	6.50		3.09		298.00	

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	M	O SEWAGE EFFLNT.	R MUDDY	O SEWAGE EFFLNT.	R TAUNTON	
AVERAGE RATE OF WITHDRAWAL (CFS)		3.58	4.79	1.78	1,187.70	
AVERAGE RATE OF DISCHARGE (CFS)		.80		.39	1,187.70	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/		2.78	4.79	1.38	10.21	
PEAK LOAD MONTH : SUMMER - WINTER 15/		AUG	AUG	AUG	AUG	JAN
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		DEC	DEC	DEC	81.00	46.00
AT OUTFALL, SUMMER - WINTER					95.00	58.00
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER					TIDAL	
- WINTER					TIDAL	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O 16/		C	C	C		
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.00	.30	[illegible] .06	1.13	1.90	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	7.00	.08	.03	.07	149.50	
LIME (TONS), COOLING WATER - BOILER MAKEUP	40.00	[illegible] 2,919.75		278.50		
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	[illegible] 1.06	[illegible] 230.88	55.00	[illegible] 139.00		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	[illegible] YES	[illegible] YES	YES	[illegible] YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	PS	ST	ST	ST	ST	
RECEIVING WATER BODY						
POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING			10.70		4.50	4.50
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					[illegible] 2,000.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN					[illegible] 547.18	
- ASH SETTLING			42,000.00		19,646.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)						
ONCE THROUGH COOLING (SALINE)					3 1,162.00	
COOLING PONDS						
COOLING TOWERS						
COMBINATION 21/	3 29.00	3 190.28	2 227.30	1 81.60		
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1948 1956	1955 1961	1964 1967	1964	1943 1969	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	8.00		17.00 18.00		12.00 17.33	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	89.00	317.00	275.00	106.10	1,403.60	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)					1,398.10	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)					3,963.00	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)	202.00	491.00	637.00	180.00		

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	1.00	226.63	120.28	97.46	43.20	
COST OF CHEMICAL ADDITIVES ($1,000)	3.40	157.35	94.74	73.33		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	22.00	141.47	101.84	74.68	49.40	
COST OF CHEMICAL ADDITIVES ($1,000)	3.60	3.22	1.28	1.01	33.40	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	NEW ENGLAND POWER CO.	NEW JERSEY POWER & LIGHT CO.	NEW MEXICO ELECTRIC SERVICE CO.	NEW ORLEANS PUBLIC SERVICE INC.	NEW ORLEANS PUBLIC SERVICE INC.	1
2							2
3							3
4	NAME OF PLANT	SALEM HARBOR	GILBERT	MADDOX	PATERSON	MARKET STREET	4
5	UTILITY-PLANT CODE	334000-1200	335000-0100	337000-0200	337500-0100	337500-0200	5
6	STATE	MASSACHUSETTS	NEW JERSEY	NEW MEXICO	LOUISIANA	LOUISIANA	6
7	COUNTY	ESSEX	HUNTERDON	LEA	ORLEANS	ORLEANS	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	119 01	151 02	155 13	106 08	106 08	8
9	PLANT CAPACITY (MW)	801.90	126.10	113.60	224.00	96.25	9
10	ANNUAL GENERATION (MWH) [3]	3,339,500	663,200	482,200	608,000	96,000	10
11	PLANT HEAT RATE (BTU/KWH) [3]	10,412	12,441	10,378	12,623	16,246	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)						12
13	AVERAGE HEAT CONTENT (BTU/LB)						13
14	AVERAGE SULFUR CONTENT (%)						14
15	AVERAGE ASH CONTENT (%)						15
16	AVERAGE MOISTURE CONTENT (%)						16
17	OIL: CONSUMPTION (1,000 BARRELS)	5,672.40	1,259.00		503.72	.84	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	146,153	145,111		147,626	145,114	18
19	AVERAGE SULFUR CONTENT (%)	.75	1.00		.97	1.47	19
20	GAS: CONSUMPTION (1,000 MCF)		562.00	4,684.69	4,243.41	1,465.99	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,030	1,069	1,074	1,048	21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	4	3	1	4	3	22
23	- NO. OF WET BOTTOM	3					23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	4	2				26
27	- NO. WITH COMBINATION PRECIPITATORS [4]		1				27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	10.00 25.00	4.10 10.00	8.00	5.00 12.00	10.00 12.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	96.00 97.00	90.00 99.00				33
34	TESTED, LOW - HIGH	96.30					34
35	EST., LOW - HIGH	80.00 90.00					35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.15	.01		.08		39
40	SULFUR DIOXIDE (1,000 TONS)	14.27	4.22		1.64	.01	40
41	NITROGEN OXIDES (1,000 TONS)	12.50	2.89	.91	1.94	.29	41
42	STACKS: - TOTAL NO.	4	3	1	2	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	230.00 500.00	176.00 205.00	156.00	151.00	315.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	.31					44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]						45
46	SOLD (1,000 TONS) [11]						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	3,858.00	289.00				51
52	COMBINATION PRECIPITATORS ($1,000) [4]		407.00				52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	1,513.00	61.50	10.98	127.00	84.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	7.70					55
56	REVENUES FROM SALE OF ASH ($1,000)						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	7.70					59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	H SALEM	R DELAWARE	W	O INNER HRBR CNL	R MISSISSIPPI	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	754.00	141.00	1.74	146.00	75.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	754.00	141.00	.48	146.00	75.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	6.48	1.21	1.26	1.26 .65		64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	SEP JAN	AUG JAN		JUL JAN	JUL JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	78.00 44.00	83.00 33.00		88.00 57.00	86.00 45.00	66
67	AT OUTFALL, SUMMER - WINTER	92.00 63.00	92.20 49.80		116.00 95.00	109.00 66.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	TIDAL	7,554.00			501,000.00	68
69	- WINTER	TIDAL	16,680.00			913,000.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O [16]	C					70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	2.74	.48	1.76 .51	2.47	.20	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	91.87		3.60	1.08	.11	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		.20				74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	69.45	11.00 1.00	1.95	29.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD (PS, ST, SW, OTH) [17]	PS		ST	PS	PS	77
78	RECEIVING WATER BODY						78
79	POND DISCHARGE [18]: PH, BOILER BLOWDOWN - ASH SETTLING	9.50 6.60		10.00			79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	10.00 12.50					80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	64.35		800.00			81
82	- ASH SETTLING	30,835.20					82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [19]: ONCE THROUGH COOLING (FRESH)		3 126.10			3 96.25	83
84	ONCE THROUGH COOLING (SALINE)	4 801.94			4 218.25		84
85	COOLING PONDS						85
86	COOLING TOWERS			1 113.60			86
87	COMBINATION [20]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1951 1972	1930 1949	1967	1947 1954	1938 1948	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [21]	8.70 28.30	13.20 17.30	10.00	16.90 17.80	10.92 11.98	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	948.89	221.00	137.00	334.30	247.30	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,119.79	233.00		334.30	247.30	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	3,387.40	290.50		1,848.60	930.90	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)			361.00			94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	89.00	21.30		68.00	20.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	17.40	5.30	8.17	3.00		96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	46.20	24.00		37.00	26.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	14.20	1.70	1.51	12.00	.04	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	NEW ORLEANS PUBLIC SERVICE INC.	NEW YORK STATE ELECTRIC & GAS CORP.	NEW YORK STATE ELECTRIC & GAS CORP.	NEW YORK STATE ELECTRIC & GAS CORP.	NEW YORK STATE ELECTRIC & GAS CORP.
NAME OF PLANT	MICHOUD	GOUDEY	GREENIDGE	MICHLING	JENNISON
UTILITY-PLANT CODE	337500-0300	339000-0600	339000-0700	339000-0900	339000-1100
STATE	LOUISIANA	NEW YORK	NEW YORK	NEW YORK	NEW YORK
COUNTY	ORLEANS	BROOME	YATES	STEUBEN	CHENANGO
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	106 08	163 02	160 04	160 02	163 02
PLANT CAPACITY (MW)	959.25	145.75	160.00	70.00	60.00
ANNUAL GENERATION (MWH)[3]	2,885,400	673,200	833,600	494,700	290,000
PLANT HEAT RATE (BTU/KWH)[3]	10,939	10,773	11,269	15,230	15,086

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)		323.49	393.83	346.12	214.65
AVERAGE HEAT CONTENT (BTU/LB)		11,341	11,638	10,917	10,219
AVERAGE SULFUR CONTENT (%)		2.20	1.98	1.59	1.30
AVERAGE ASH CONTENT (%)		18.45	15.20	21.83	22.20
AVERAGE MOISTURE CONTENT (%)		5.64	7.68	6.50	8.20
OIL: CONSUMPTION (1,000 BARRELS)	1,066.19	13.18	44.80		
AVERAGE HEAT CONTENT (BTU/GAL)	146,911	137,648	137,578		
AVERAGE SULFUR CONTENT (%)	1.35	.36	.40		
GAS: CONSUMPTION (1,000 MCF)	22,059.57				
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,082				

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	3	6	6	4	4
- NO. OF WET BOTTOM		6	6	4	4
- NO. WITH FLY ASH REINJECTION				4	4
- NO. WITH MECHANICAL PRECIPITATORS				4	4
- NO. WITH ELECTROSTATIC PRECIPITATORS			5		
- NO. WITH COMBINATION PRECIPITATORS[4]		6	1		
- NO. WITH DESULFURIZATION SYSTEMS			2		
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]					
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	12.00	30.00 31.00	21.00 25.00	25.00 28.00	
TESTED, LOW - HIGH			76.00 80.00	90.00 93.50	92.00
ESTIMATED, LOW - HIGH			75.00	86.00	86.00
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH		92.00 99.80	98.50 99.00		
TESTED, LOW - HIGH			99.10		
EST., LOW - HIGH		90.00	98.00 99.00		
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH					
TESTED, LOW - HIGH					
ESTIMATED, LOW - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.18	3.88	1.92	15.59	9.80
SULFUR DIOXIDE (1,000 TONS)	4.83	13.96	15.34	10.79	5.45
NITROGEN OXIDES (1,000 TONS)	6.65	4.88	6.01	2.60	1.61
STACKS: - TOTAL NO.	5	2	4	2	2
- HEIGHT (FEET), LOWEST - HIGHEST[8]	164.00 186.00	287.00	227.00 250.00	142.00	152.00
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]					
TOTAL ASH: COLLECTED (1,000 TONS)[10]		59.60	62.84	129.40	47.50
SOLD (1,000 TONS)[11]			5.10		
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]					
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			98.99	108.30	106.90
ELECTROSTATIC PRECIPITATORS ($1,000)		4,717.36	830.00		
COMBINATION PRECIPITATORS ($1,000)[4]			197.00		
DESULFURIZATION SYSTEMS ($1,000)					
STACKS ($1,000)					
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	189.00	80.29	273.81	55.30	67.88
REVENUES FROM SALE OF ASH ($1,000)		101.80	186.60	139.70	185.50
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)			2.10		
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)					
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		106.10	282.60	139.70	185.50
TOTAL BYPRODUCT SALES REVENUES ($1,000)			2.10		

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O MISS. R OUTLET	R SUSQUEHANNA	L SENECA	R CHEMUNG	R SUSQUEHANNA
AVERAGE RATE OF WITHDRAWAL (CFS)	414.00	124.32	183.17	82.64	73.49
AVERAGE RATE OF DISCHARGE (CFS)	414.00	123.92	183.00	80.56	72.46
AVE. RATE OF CONSUMPTION (CFS). CALCULATED - REPORTED[14]		.40	.17	1.37	1.03
PEAK LOAD MONTH : SUMMER - WINTER[15]	3.56	1.01	1.56	.78	.83
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	AUG JAN	AUG JAN	AUG JAN	AUG JAN	AUG JAN
AT OUTFALL, SUMMER - WINTER	92.00 62.00	92.00 35.00	78.00 38.00	78.00 38.00	80.00 37.00
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	112.00 83.00	62.00	56.00	78.00	68.00
- WINTER		428.00	100.00		
FREQUENCY OF TEMPERATURE MONITORING: C, M, O, D[16]		10,374.00	1,600.00	2,613.00	2,902.00
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP					
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	1.52	.15	.90	.05	.10
LIME (TONS), COOLING WATER - BOILER MAKEUP	.13	.25	.05	.10	.05
ALUM (TONS), COOLING WATER - BOILER MAKEUP			12.00		
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		47.50			1.10
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	73.00	8.00	8.00	3.38	8.81
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	YES	YES	YES	YES	YES
RECEIVING WATER BODY	ST	ST	ST	ST	ST/OT
POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	O MISS. R OUTLET		L SENECA		R SUSQUEHANNA
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		10.40	6.20	10.80 7.70	7.80
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN		170.00			
- ASH SETTLING			61,500.00		

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	3 125.00	4 180.00	2 70.00	2 60.00
ONCE THROUGH COOLING (SALINE)					
COOLING PONDS	3 959.25				
COOLING TOWERS					
COMBINATION[21]					
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1957 1967	1927 1951	1938 1953	1948 1952	1949 1950
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F): SMALLEST - LARGEST[22]	15.10 17.20	26.00 34.00	22.00 27.00	21.50 23.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,158.10	226.50	300.00	116.00	96.80
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,158.10	232.50	301.00	118.50	100.80

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	3,476.70	778.00	1,647.00	392.00	291.00
COOLING PONDS ($1,000)					
COOLING TOWERS ($1,000)					

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	69.00	48.90	51.30	57.40	23.50
COST OF CHEMICAL ADDITIVES ($1,000)	11.00	.90	1.00	.88	.90

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	56.00	21.70	26.10	5.50	29.80
COST OF CHEMICAL ADDITIVES ($1,000)	12.00	3.10	6.00	.66	1.60

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	NEW YORK STATE ELECTRIC & GAS CORP.	NIAGARA-MOHAWK POWER CORP.	NIAGARA-MOHAWK POWER CORP.	NIAGARA-MOHAWK POWER CORP.	NIAGARA-MOHAWK POWER CORP.	
NAME OF PLANT	MILLIKEN	OSWEGO	ALBANY	HUNTLEY	DUNKIRK	
UTILITY-PLANT CODE	339000-1400	341000-3800	341000-5900	341000-7900	341000-8000	
STATE	NEW YORK	NEW YORK	NEW YORK	NEW YORK	NEW YORK	
COUNTY	TOMPKINS	OSWEGO	ALBANY	ERIE	CHAUTAUQUA	
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	164 04	158 04	161 02	162 04	164 04	
PLANT CAPACITY (MW) [3]	270.00	376.00	400.00	828.00	628.00	
ANNUAL GENERATION (MWH) [3]	1,983,000	1,710,800	2,617,300	3,831,700	3,588,800	
PLANT HEAT RATE (BTU/KWH) [3]	9,527	11,545	9,960	10,380	10,059	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	832.90			1,530.00	1,367.00	
AVERAGE HEAT CONTENT (BTU/LB)	11,317			12,855	12,877	
AVERAGE SULFUR CONTENT (%)	2.08			2.23	2.40	
AVERAGE ASH CONTENT (%)	16.37			8.12	10.15	
AVERAGE MOISTURE CONTENT (%)	7.45			6.38	5.15	
OIL: CONSUMPTION (1,000 BARRELS)	9.18	3,236.00	4,156.00		26.70	
AVERAGE HEAT CONTENT (BTU/GAL)	137,578	149,443	149,322		139,156	
AVERAGE SULFUR CONTENT (%)	.44	2.57	2.46		.10	
GAS: CONSUMPTION (1,000 MCF)						
AVERAGE HEAT CONTENT (BTU/CU.FT.)						

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	4	4	6	4	
- NO. OF WET BOTTOM	2	4		4		
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS		4	4			
- NO. WITH ELECTROSTATIC PRECIPITATORS	2			6	4	
- NO. WITH COMBINATION PRECIPITATORS [4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%, LOWEST BOILER - HIGHEST BOILER) [5]	24.00	10.00	8.00 9.00	22.00 25.50	15.00 18.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		25.00 30.00	80.00			
TESTED, LOW - HIGH		28.00	33.00			
ESTIMATED, LOW - HIGH		25.00 30.00	33.00			
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	99.00			99.50	99.50	
TESTED, LOW - HIGH	99.40 99.50			98.38 99.79	99.70 99.87	
EST., LOW - HIGH	99.40 99.50					
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.49	.39	.47	.64	.33	
SULFUR OXIDES (1,000 TONS)	33.97	27.14	34.31	67.76	66.08	
NITROGEN OXIDES (1,000 TONS)	12.51	6.94	9.17	18.42	12.70	
STACKS: - TOTAL NO.	4	4	4	2	3	
- HEIGHT (FEET), LOWEST - HIGHEST [8]	250.00	364.00	345.00	350.00	310.00 312.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]		.20	.26			
TOTAL ASH: COLLECTED (1,000 TONS) [10]	136.30	.50	3.50	191.90	214.70	
SOLD (1,000 TONS) [11]		.10	.08	4.00		
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		341.30	317.10			
ELECTROSTATIC PRECIPITATORS ($1,000)	5,700.00			30,750.00	18,900.00	
COMBINATION PRECIPITATORS ($1,000) [10]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)						
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	1,089.68	222.90	308.00	1,730.10	617.80	
REVENUES FROM SALE OF ASH ($1,000)	191.20	22.00	35.00	229.50		
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)		100.00		4.00		
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	768.20	22.00	35.00	229.50	10.66	
TOTAL BYPRODUCT SALES REVENUES ($1,000)		100.00	103.00	4.00		

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES N, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L CAYUGA	L ONTARIO	R HUDSON	R NIAGARA	L ERIE	
AVERAGE RATE OF WITHDRAWAL (CFS)	356.44	500.00	784.00	1,160.00	890.00	
AVERAGE RATE OF DISCHARGE (CFS)	356.40	500.00	784.00	1,160.00	890.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	.04					
PEAK LOAD MONTH : SUMMER - WINTER [15]	3.07 4.30		6.74	9.98	7.65	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	AUG JAN	AUG JAN	JUN OCT	SEP DEC	AUG DEC	
AT OUTFALL, SUMMER - WINTER	76.00 46.00	77.00 43.00	75.00 58.00	78.00 45.00	73.00 42.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	88.00 60.50	89.00 58.00	86.00 69.00	89.00 58.00	86.00 51.00	
- WINTER	2	4				
FREQUENCY OF TEMPERATURE MONITORING: C, M, O, OTH [16]	219.00	730.00		231,000.00		
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	5,242.00	456.00		27,000.00		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	C .20	C .13	C .15	C .08	C .40	
LIME (TONS), COOLING WATER - BOILER MAKEUP	194.14	191.92	.10	106.28	108.80	
ALUM (TONS), COOLING WATER - BOILER MAKEUP				18.00	10.92	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.20	4.30		1.45	2.19	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	3.00 .98	.15	144.00	12.00		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OTH [18]	YES	YES	YES	YES	YES	
RECEIVING WATER BODY	ST	PS	ST	PS	PS	
POND DISCHARGE [19]: PH, BOILER BLOWDOWN - ASH SETTLING	L CAYUGA		O ORAIN FIELD			
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		11.80	10.80	7.80	8.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN				3.00	40.00	
- ASH SETTLING		20,000.00		11,000.00	46,350.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING: [20] ONCE THROUGH COOLING (FRESH)	2 270.00	4 376.00	4 400.00	6 828.00	4 628.00	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)						
COOLING TOWER(S)						
COMBINATION [21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1955 1958	1940 1951	1952 1954	1942 1958	1950 1960	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	25.00	11.50 13.20	10.30	10.70 13.70	11.50 15.20	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	376.00	736.00	780.00	1,292.00	892.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	376.60	736.00	780.00	1,292.00	892.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	715.00	1,516.40	715.00	3,637.80	4,593.60	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	45.90	2.20	15.00	15.00	12.20	
COST OF CHEMICAL ADDITIVES ($1,000)	.37		9.00	1.73		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	8.40	1.50	30.00	30.00	25.50	
COST OF CHEMICAL ADDITIVES ($1,000)	14.70	16.00	2.00	14.72	5.10	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	NIAGARA-MOHAWK	NORTHERN INDIANA	NORTHERN INDIANA	NORTHERN INDIANA	NORTHERN MICHIGAN,	1
2		POWER CORP.	PUBLIC SERVICE	PUBLIC SERVICE	PUBLIC SERVICE	ELECTRIC COOP	2
3			CO.	CO.	CO.	INC.	3
4	NAME OF PLANT	9 MILE POINT NUC	BAILLY	MITCHELL	MICHIGAN CITY	ADVANCE	4
5	UTILITY-PLANT CODE	341000-8100	345500-0100	345500-0300	345500-0400	346000-0100	5
6	STATE	NEW YORK	INDIANA	INDIANA	INDIANA	MICHIGAN	6
7	COUNTY	OSWEGO	PORTER	LAKE	LAPORTE	CHARLEVOIX	7
8	AIR QUALITY CONTROL REGION NO.[1/] - WATER RESOURCE REGION NO.[2/]	158 04	067 04	067 04	082 04	139 10	8
9	PLANT CAPACITY (MW)	500.00	615.60	529.40	215.03	37.00	9
10	ANNUAL GENERATION (MWH)[3/]	3,494,200	2,999,000	3,159,900	603,100	247,700	10
11	PLANT HEAT RATE (BTU/KWH)[3/]	10,709	10,008	10,124	12,349	12,636	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)		1,342.25	1,423.84	310.91	126.40	12
13	AVERAGE HEAT CONTENT (BTU/LB)		11,109	11,146	10,558	12,341	13
14	AVERAGE SULFUR CONTENT (%)		3.62	3.18	3.36	2.38	14
15	AVERAGE ASH CONTENT (%)		10.00	9.32	11.14	8.95	15
16	AVERAGE MOISTURE CONTENT (%)		12.49	12.52	14.12	8.00	16
17	OIL: CONSUMPTION (1,000 BARRELS)						17
18	AVERAGE HEAT CONTENT (BTU/GAL)						18
19	AVERAGE SULFUR CONTENT (%)						19
20	GAS: CONSUMPTION (1,000 MCF)		189.96	262.11	3,352.50		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,000	1,000	1,000		21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.		2	4	6	3	22
23	- NO. OF WET BOTTOM		2		6		23
24	- NO. WITH FLY ASH REINJECTION		2				24
25	- NO. WITH MECHANICAL PRECIPITATORS				2		25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		2	4	3		26
27	- NO. WITH COMBINATION PRECIPITATORS[4/]					3	27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5/]		16.00 17.00	18.00 19.00	20.00	19.00 20.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH				60.00		30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6/]: DESIGN, LOW - HIGH		96.50	98.00	90.00 98.00	94.00	33
34	TESTED, LOW - HIGH		74.20			78.31 98.87	34
35	EST., LOW - HIGH		98.40 98.60	96.70 97.90	98.00	97.70 98.00	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7/]: PARTICULATE MATTER (1,000 TONS)		.23	2.89	.07	.20	39
40	SULFUR DIOXIDE (1,000 TONS)		95.24	88.75	20.48	5.89	40
41	NITROGEN OXIDES (1,000 TONS)		36.95	12.87	9.20	1.14	41
42	STACKS: - TOTAL NO.		1	2	4	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8/]		400.00	236.00	270.00	150.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9/]						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10/]		129.50	131.30	34.50	12.00	45
46	SOLD (1,000 TONS)[11/]		83.80				46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12/]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				153.40		50
51	ELECTROSTATIC PRECIPITATORS ($1,000)		1,108.00	1,506.00	726.00		51
52	COMBINATION PRECIPITATORS ($1,000)[4/]					777.00	52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)		544.00	537.00	236.00	144.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		132.00	376.40	67.30	15.29	55
56	REVENUES FROM SALE OF ASH ($1,000)		14.30				56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13/]		131.00	376.40	94.98	15.10	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		14.30				60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L ONTARIO	L MICHIGAN	L MICHIGAN	L MICHIGAN	L CHARLEVOIX	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	518.00	470.20	690.00	222.80	856.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	518.00	470.20	690.00	222.80	850.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14/]	4.45	4.04	5.93	1.92	7.36 6.00	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15/]	JUN DEC	AUG DEC	AUG DEC	AUG DEC	SEP DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	56.00 45.00	74.00 46.00	76.00 56.00	78.00 48.00	68.00 40.00	66
67	AT OUTFALL, SUMMER - WINTER	83.00 78.00	89.50 71.00	90.00 69.00	89.00 59.00	73.00 43.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						68
69	- WINTER						69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16/]	H				C	70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.14	.40	.08	.50	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	134.41	19.09	42.68	2.00	.15	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	28.00					73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		6.00	6.65			74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		4.00	8.00	7.50		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17/]	YES	YES	YES	YES	YES YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18/]	OT	ST	ST	PS	ST	77
78	RECEIVING WATER BODY	L ONTARIO					78
79	POND DISCHARGE:[19/] PH, BOILER BLOWDOWN - ASH SETTLING			11.50	7.50	8.10	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			79.40	100.00	10.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING		17,000.00	140,000.00	35,000.00	8,300.00	82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING[20/]: ONCE THROUGH COOLING (FRESH)	1 620.00	2 615.60	4 550.90	3 215.04	3 37.00	83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING POND(S)						85
86	COOLING TOWER(S)						86
87	COMBINATIONS[21/]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1967	1962 1968	1956 1970	1931 1951	1952 1967	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22/]	32.00	10.00 21.00	10.00	8.79 10.00	10.50 16.60	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	557.00	685.00	1,155.00	516.00	103.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	600.00	685.00	1,155.00	516.00	106.00	91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	7,860.00	3,915.00	2,522.00	799.00		92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)						94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)		73.90	59.00	25.40		95
96	COST OF CHEMICAL ADDITIVES ($1,000)		.33	2.00	2.20		96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)		37.20	30.00	30.90		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	10.00	8.34	12.00	.60	.36	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	NORTHERN STATES POWER CO. (MINN.)	NORTHERN STATES POWER CO. (MINN.)	NORTHERN STATES POWER CO. (MINN.)	NORTHERN STATES POWER CO. (MINN.)	NORTHERN STATES POWER CO. (MINN.)	1
2							2
3							3
4	NAME OF PLANT	BLACK DOG	HIGH BRIDGE	KING	LAWRENCE	MINNESOTA VALLEY	4
5	UTILITY-PLANT CODE	347000-0300	347000-1300	347000-1400	347000-1500	347000-1800	5
6	STATE	MINNESOTA	MINNESOTA	MINNESOTA	SOUTH DAKOTA	MINNESOTA	6
7	COUNTY	DAKOTA	RAMSEY	WASHINGTON	MINNEHAHA	CHIPPEWA	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	131 07	131 07	131 07	087 10	133 07	8
9	PLANT CAPACITY (MW)	486.66	463.84	598.40	48.00	46.00	9
10	ANNUAL GENERATION (MWH) [3]	2,925,200	2,219,300	2,992,900	168,100	176,700	10
11	PLANT HEAT RATE (BTU/KWH) [3]	10,942	11,754	9,575	14,199	12,118	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	834.54	676.35	1,356.00	471.71	77.65	12
13	AVERAGE HEAT CONTENT (BTU/LB)	10,108	9,666	10,567	9,155	10,044	13
14	AVERAGE SULFUR CONTENT (%)	2.27	1.82	3.32	1.08	1.28	14
15	AVERAGE ASH CONTENT (%)	11.73	9.71	15.17	6.26	9.20	15
16	AVERAGE MOISTURE CONTENT (%)	17.80	19.98	13.14	23.73	17.40	16
17	OIL: CONSUMPTION (1,000 BARRELS)	1.39	41.61		.17	.93	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	137,000	142,000		137,000	138,000	18
19	AVERAGE SULFUR CONTENT (%)	.50	.60		.50	.50	19
20	GAS: CONSUMPTION (1,000 MCF)	15,007.05	13,050.87		1,515.24	578.71	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,008	978		998	998	21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	4	12	1	3	4	22
23	- NO. OF WET BOTTOM			1			23
24	- NO. WITH FLY ASH REINJECTION			1	2		24
25	- NO. WITH MECHANICAL PRECIPITATORS				3	1	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	4	4	1			26
27	- NO. WITH COMBINATION PRECIPITATORS [4]						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]						29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	23.00 25.00	20.00 25.00	16.00	25.00 35.00	20.00 23.00	30
31	TESTED, LOW - HIGH				85.00 94.00	90.00	31
32	ESTIMATED, LOW - HIGH				76.40 78.80		32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	97.00 97.80	94.00 98.00	99.00			33
34	TESTED, LOW - HIGH	89.10 95.20	90.00 99.50	98.00		99.00	34
35	EST., LOW - HIGH	89.00 95.00	99.00	98.00		99.00	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	5.85	.65	7.37	.75	.06	39
40	SULFUR DIOXIDE (1,000 TONS)	37.13	24.21	88.24	1.01	1.95	40
41	NITROGEN OXIDES (1,000 TONS)	10.44	8.72	10.17	.68	.81	41
42	STACKS: - TOTAL NO.	4	5	1	3	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	289.00	292.50	789.00	165.00	277.50	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	93.00	63.00	204.00	3.00	7.00	45
46	SOLD (1,000 TONS) [11]	13.00	63.00	24.00			46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				36.00	52.00	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	1,306.00	962.00	1,370.00			51
52	COMBINATION PRECIPITATORS ($1,000) [4]						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	580.00	500.00	1,635.00	201.00	169.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	218.30	247.20	180.10	8.70	62.70	55
56	REVENUES FROM SALE OF ASH ($1,000)	23.60	10.60				56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	218.40	271.10	220.50	8.70	63.80	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	23.60	15.30	2.70			60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MINNESOTA	R MISSISSIPPI	R ST. CROIX	R BIG SIOUX	R MINNESOTA	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	200.60	355.20	346.70	.82	33.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	197.20	352.10	343.00	.33	32.70	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	3.40	3.05 3.10	3.70	.49 .28	.30	64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG JAN	AUG JAN	AUG JAN	AUG JAN	AUG JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	81.00 37.00	80.00 36.00	78.00 37.00	79.00 34.00	84.00 35.00	66
67	AT OUTFALL, SUMMER - WINTER	89.00 59.00	100.00 63.00	86.00 61.00	85.00 40.00	100.00 61.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	795.00	7,741.00	4,050.00	40.00	107.00	68
69	- WINTER	1,954.00	8,210.00	3,089.00	102.00	573.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [16]						TO
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.10	10.50		2.68 .28	.30	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	27.00	52.05	301.50 33.00	2.25	.29	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP				280.00	3.25	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP				9.75		74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	94.00	11.70	7.20	2.45	1.43	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [17]	ST	PS	PS	ST	ST	77
78	RECEIVING WATER BODY	L BLACK DOG					78
79	POND DISCHARGE: [18] PH, BOILER BLOWDOWN - ASH SETTLING	7.70				8.60	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	103.60			1.00	91.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	2,780.00	93.00		10.70	46.50	81
82	- ASH SETTLING	103,900.00			361.00	2,674.00	82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING [19]: ONCE THROUGH COOLING (FRESH)		6 463.84			3 66.00	83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING POND(S)						85
86	COOLING TOWER(S)				3 48.00		86
87	COMBINATION [20]	4 486.66		1 598.40			87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1952	1923 1959	1968	1948 1951	1930 1953	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	18.00	18.00 20.00	16.90	14.50 15.40	16.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	574.90	662.90	619.50	100.30	92.40	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	574.90	662.90	619.50	1.20	92.40	91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,565.00	2,142.00	1,819.00	715.00	344.00	92
93	COOLING PONDS ($1,000)	282.00					93
94	COOLING TOWERS ($1,000)			1,633.00	308.00		94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	40.90	67.20	176.40	45.00	15.40	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	15.50	1.90	24.10	17.00	.40	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	47.10	20.50	76.50	27.00	28.20	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	8.60	11.90	11.20	1.00	1.10	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

	NAME OF UTILITY	NORTHERN STATES POWER CO. (MINN.)	NORTHERN STATES POWER CO. (MINN.)	NORTHERN STATES POWER CO. (MINN.)	NORTHERN STATES POWER CO.	NORTHERN STATES POWER CO. (MINN.)
	NAME OF PLANT	RIVERSIDE	SOUTHEAST	WILMARTH	MONTICELLO	PATHFINDER
	UTILITY-PLANT CODE	347000-2700	347000-3000	347000-3600	347000-4900	347000-3250
	STATE	MINNESOTA	MINNESOTA	MINNESOTA	MINNESOTA	SOUTH DAKOTA
	COUNTY	HENNEPIN	HENNEPIN	BLUE EARTH	WRIGHT	MINNEHAHA
	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	131 07	131 07	07	21	10
	PLANT CAPACITY (MW)	455.83	30.00	25.00	568.80	73.00
	ANNUAL GENERATION (MWH) [3]	2,144,200	29,900	116,000	3,270,700	146,700
	PLANT HEAT RATE (BTU/KWH) [3]	11,307	10,896	14,329		14,319

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL:	CONSUMPTION (1,000 TONS)	963.97		40.00		
	AVERAGE HEAT CONTENT (BTU/LB)	9,281		7,388		
	AVERAGE SULFUR CONTENT (%)	1.16		.50		
	AVERAGE ASH CONTENT (%)	8.01		9.78		
	AVERAGE MOISTURE CONTENT (%)	22.53		32.44		
OIL:	CONSUMPTION (1,000 BARRELS)	27.85	3.38			162.32
	AVERAGE HEAT CONTENT (BTU/GAL)	139,000	140,300			131,800
	AVERAGE SULFUR CONTENT (%)	.50	.50			.70
GAS:	CONSUMPTION (1,000 MCF)	6,237.81	338.08	1,069.22		1,067.25
	AVERAGE HEAT CONTENT (BTU/CU.FT.)	992	991	1,004		998

PLANT EQUIPMENT DATA

BOILERS:	- TOTAL NO.	18	3	2		3
	- NO. OF WET BOTTOM	1				
	- NO. WITH FLY ASH REINJECTION	1		2		
	- NO. WITH MECHANICAL PRECIPITATORS	3		2		
	- NO. WITH ELECTROSTATIC PRECIPITATORS	3				
	- NO. WITH COMBINATION PRECIPITATORS [4]					
	- NO. WITH DESULFURIZATION SYSTEMS					
	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]					
MECHANICAL PRECIPITATOR EFFICIENCY :	DESIGN, LOW - HIGH	30.00	30.00	35.00		13.00
	TESTED, LOW - HIGH	94.00		94.00		
	ESTIMATED, LOW - HIGH			89.90 90.40		
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]:	DESIGN, LOW - HIGH	98.00				
	TESTED, LOW - HIGH	99.00				
	EST., LOW - HIGH	99.00				
DESULFURIZATION SYSTEM EFFICIENCY :	DESIGN, LOW - HIGH					
	TESTED, LOW - HIGH					
	ESTIMATED, LOW - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]:	PARTICULATE MATTER (1,000 TONS)	.53		.60		.03
	SULFUR DIOXIDE (1,000 TONS)	21.94		.39		.38
	NITROGEN OXIDES (1,000 TONS)	24.27	.12	.31		.57
STACKS:	- TOTAL NO.	9	2	2		1
	- HEIGHT (FEET), LOWEST - HIGHEST [8]	253.00	223.00	138.30		130.00
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]						
TOTAL ASH:	COLLECTED (1,000 TONS) [10]	76.00		3.70		
	SOLD (1,000 TONS) [11]	60.10				
TOTAL SULFUR:	ELEMENTAL COLLECTED (1,000 TONS)					
	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]					
	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					
INSTALLED COSTS:	MECHANICAL PRECIPITATORS ($1,000)	158.40		17.10		
	ELECTROSTATIC PRECIPITATORS ($1,000)	1,002.00				
	COMBINATION PRECIPITATORS ($1,000) [4]					
	DESULFURIZATION SYSTEMS ($1,000)					
	STACKS ($1,000)	676.00	25.00	117.00		83.00
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		333.70		6.70		
REVENUES FROM SALE OF ASH ($1,000)		3.30				
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]		354.80		6.70		
TOTAL BYPRODUCT SALES REVENUES ($1,000)		11.70				

WATER QUALITY CONTROL DATA

COOLING WATER:	SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MISSISSIPPI	R MISSISSIPPI	R MINNESOTA	R MISSISSIPPI	R BIG SIOUX
	AVERAGE RATE OF WITHDRAWAL (CFS)	347.70	18.10	33.90	388.50	.36
	AVERAGE RATE OF DISCHARGE (CFS)	344.70	17.90	33.60	383.60	.07
	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	3.00	.20	.30	4.90	.49
PEAK LOAD MONTH :	SUMMER - WINTER [15]	AUG JAN	AUG JAN	AUG JAN	AUG JAN	AUG JAN
MAX. TEMP. DURING PEAK MONTH (DEG. F.):	AT DIVERSION, SUMMER - WINTER	82.00 37.00	86.00 37.00	94.00 33.00	78.00 32.00	73.00 34.00
	AT OUTFALL, SUMMER - WINTER	99.00 75.00	93.00 50.00	103.00 57.00	92.00 86.00	80.00 40.00
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS):	SUMMER	7,503.00	7,503.00	408.00		
	- WINTER	6,597.00	6,597.00	1,468.00	3,824.00	102.00
FREQUENCY OF TEMPERATURE MONITORING: C, M, D, O [16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS),	COOLING WATER - BOILER MAKEUP	.45	.40	.26		.15
CAUSTIC SODA (TONS),	COOLING WATER - BOILER MAKEUP	.15	.10	.13	22.50	34.90
LIME (TONS),	COOLING WATER - BOILER MAKEUP			1.53	167.10	
ALUM (TONS),	COOLING WATER - BOILER MAKEUP				88.45	
CHLORINE (TONS),	COOLING WATER - BOILER MAKEUP	5.08	2.00	89.00	6.65	
OTHER (YES/NO),	COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES YES
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [16]		PS	PS	ST	ST	ST
RECEIVING WATER BODY				D. DRAIN FIELD		
POND DISCHARGE [17]: PH,	BOILER BLOWDOWN - ASH SETTLING					
SUSPENDED SOLIDS (PPM),	BOILER BLOWDOWN - ASH SETTLING					
VOLUME (1,000 CUFT/YR),	BOILER BLOWDOWN - ASH SETTLING	4,204,271				

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [18]:	ONCE THROUGH COOLING (FRESH)	8 518.36	2 30.00	2 25.00		
	ONCE THROUGH COOLING (SALINE)					
	COOLING PONDS					
	COOLING TOWERS					1 73.00
	COMBINATION [19]				1 368.80	
COOLING SYSTEM, YEAR OF INSTALLATION:	OLDEST SYSTEM - NEWEST SYSTEM	1914 1964	1917 1946	1948 1951	1971	1962
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F),	SMALLEST - LARGEST [20]	13.00 18.40	15.00	18.00	28.00	16.00
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)		911.50	108.00	51.20	645.00	133.10
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		911.50	108.00	51.20	645.00	1.35

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)		2,164.00	49.00	390.00	3,529.00	1,622.00
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)					2,660.00	576.00

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		116.80	1.60	6.90	284.70	35.20
COST OF CHEMICAL ADDITIVES ($1,000)		1.70		.30	11.70	27.10

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		89.20	11.90	16.80	31.50	21.20
COST OF CHEMICAL ADDITIVES ($1,000)		1.50	.10	.20	3.10	.00

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	OHIO EDISON CO.	OHIO EDISON CO.	OHIO EDISON CO.	OHIO EDISON CO.	OHIO EDISON CO.
4	NAME OF PLANT	EDGEWATER	GORGE STEAM	MAD RIVER	MILES	BURGER
5	UTILITY-PLANT CODE	354500-0100	354500-0200	354500-0300	354500-0400	354500-0500
6	STATE	OHIO	OHIO	OHIO	OHIO	OHIO
7	COUNTY	LORAIN	SUMMIT	CLARK	TRUMBULL	BELMONT
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	174 04	174 04	173 05	178 05	181 05
9	PLANT CAPACITY (MW) 3/	192.87	87.50	75.00	250.00	544.00
10	ANNUAL GENERATION (MWH) 3/	766,000	478,500	221,400	1,458,800	2,851,100
11	PLANT HEAT RATE (BTU/KWH) 3/	11,474	12,172	14,690	10,703	11,099

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	357.50	268.90	140.70	695.20	1,379.50
13	AVERAGE HEAT CONTENT (BTU/LB)	12,267	10,792	11,516	11,219	11,457
14	AVERAGE SULFUR CONTENT (%)	2.68	3.22	1.69	2.90	3.25
15	AVERAGE ASH CONTENT (%)	10.13	15.25	12.81	15.22	13.93
16	AVERAGE MOISTURE CONTENT (%)	5.95	9.03	7.86	7.58	7.47
17	OIL: CONSUMPTION (1,000 BARRELS)					
18	AVERAGE HEAT CONTENT (BTU/GAL)					
19	AVERAGE SULFUR CONTENT (%)					
20	GAS: CONSUMPTION (1,000 MCF)					
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)					

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	3	2	4	2	8
23	- NO. OF WET BOTTOM				2	
24	- NO. WITH FLY ASH REINJECTION					
25	- NO. WITH MECHANICAL PRECIPITATORS	2		4	2	1
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	3				6
27	- NO. WITH COMBINATION PRECIPITATORS 4/		2			2
28	- NO. WITH DESULFURIZATION SYSTEMS					
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	25.00 27.00	25.00 30.00	18.00 22.00	10.00	25.00
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00		55.00 80.00	70.00	80.00
31	TESTED, LOW - HIGH					
32	ESTIMATED, LOW - HIGH			55.00 80.00	70.00	
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	98.00 99.00	98.00			97.00 99.00
34	TESTED, LOW - HIGH	80.00 98.50	94.00 97.50			67.80 99.80
35	EST., LOW - HIGH					97.00
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH					
37	TESTED, LOW - HIGH					
38	ESTIMATED, LOW - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	3.68	1.40	3.54	3.17	5.93
40	SULFUR DIOXIDE (1,000 TONS)	18.78	16.97	4.66	39.52	87.87
41	NITROGEN OXIDES (1,000 TONS)	3.22	2.42	1.22	19.12	12.42
42	STACKS: - TOTAL NO.	2	2	3	2	1
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	250.00 280.00	275.00	150.00 275.00	300.00	850.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/					
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	35.60	40.10	15.00	102.50	188.40
46	SOLD (1,000 TONS) 11/	8.70		.30	64.30	11.40
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/					
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	68.00		37.00	172.00	23.00
51	ELECTROSTATIC PRECIPITATORS ($1,000)	1,323.00				8,530.00
52	COMBINATION PRECIPITATORS ($1,000) 4/		1,071.00			724.00
53	DESULFURIZATION SYSTEMS ($1,000)					
54	STACKS ($1,000)	93.00	47.00	25.00	104.00	4,077.00
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	123.90	77.90	37.20	221.30	512.70
56	REVENUES FROM SALE OF ASH ($1,000)	5.50		.10	17.60	8.80
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)					
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)					
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	124.30	78.20	37.20	221.30	513.20
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	5.50		.10	17.60	8.80

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L ERIE	R CUYAHOGA	R MAD	R MAHONING	R OHIO
62	AVERAGE RATE OF WITHDRAWAL (CFS)	181.10	163.60	88.10	323.80	828.80
63	AVERAGE RATE OF DISCHARGE (CFS)	181.10	163.60	88.10	323.80	828.80
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	1.56 1.41	.76	2.78	7.13	
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	JUL DEC	JUL DEC	JUL DEC	JUL DEC	JUL DEC
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	78.00 60.00	86.00 48.00	72.00 51.00	89.00 54.00	85.00 51.00
67	AT OUTFALL, SUMMER - WINTER	97.50 79.00	100.00 68.00	81.70 56.30	98.30 70.50	108.00 70.00
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		156.30	604.00	491.00	12,100.00
69	- WINTER		441.50	650.00	798.00	60,200.00
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O, 0 16/					
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP					
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	44.78	16.00		56.75	117.80
73	LIME (TONS), COOLING WATER - BOILER MAKEUP			9.00		
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP			.70		.75
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	5.04	11.00	.38	24.00	4.00
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES	YES	YES	YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	ST/PS	ST	ST	ST	ST
78	RECEIVING WATER BODY	D LEACHING FIELD	R CUYAHOGA		R MAHONING	R OHIO
79	POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING	6.27			7.10	10.16
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	166.00				
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN					
82	- ASH SETTLING					

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	3 192.87	2 87.50	3 75.00	2 250.00	5 544.00
84	ONCE THROUGH COOLING (SALINE)					
85	COOLING POND(S)					
86	COOLING TOWER(S)					
87	COMBINATION 21/					
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1923 1957	1943 1948	1927 1949	1954	1944 1955
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	15.00	16.00 17.00	15.00	15.00	15.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	325.30	196.06	172.80	312.00	809.30
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	325.30	196.06	172.80	312.00	809.30

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,519.60	182.60	24.10	554.60	4,736.40
93	COOLING PONDS ($1,000)					
94	COOLING TOWERS ($1,000)					

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	48.80	113.10	52.90	71.10	222.10
96	COST OF CHEMICAL ADDITIVES ($1,000)	.60	1.20	.20	3.80	.50

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	10.30	21.00	1.80	15.50	33.80
98	COST OF CHEMICAL ADDITIVES ($1,000)	4.00	7.20	1.50	15.80	30.00

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	OHIO EDISON CO.	OHIO EDISON CO.	OHIO EDISON CO	OHIO POWER CO.	OHIO POWER CO.	1
2							2
3							3
4	NAME OF PLANT	TORONTO	SAMMIS	NORWALK	FARMER	MUSKINGUM	4
5	UTILITY-PLANT CODE	354500-0600	354500-0700	354500-0800	355000-0100	355000-0200	5
6	STATE	OHIO	OHIO	OHIO	WEST VIRGINIA	OHIO	6
7	COUNTY	JEFFERSON	JEFFERSON	HURON	MARSHALL	MORGAN	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	101 05	101 05	108 04	101 05	139 05	8
9	PLANT CAPACITY (MW)	175.75	2,303.50	31.33	675.00	1,529.60	9
10	ANNUAL GENERATION (MWH) 3/	707,500	12,945,100	69,800	3,794,000	8,581,900	10
11	PLANT HEAT RATE (BTU/KWH) 3/	14,156	9,388	16,794	9,862	9,503	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	452.10	5,345.10	51.20	1,574.40	3,898.70	12
13	AVERAGE HEAT CONTENT (BTU/LB)	11,042	11,367	11,322	11,874	10,448	13
14	AVERAGE SULFUR CONTENT (%)	2.92	2.99	3.55	3.91	4.64	14
15	AVERAGE ASH CONTENT (%)	(8.01	15.79	13.10	12.29	19.35	15
16	AVERAGE MOISTURE CONTENT (%)	5.65	6.17	7.24	7.22	6.59	16
17	OIL: CONSUMPTION (1,000 BARRELS)			2.70	4.00	37.00	17
18	AVERAGE HEAT CONTENT (BTU/GAL)			138,000	138,812	139,493	18
19	AVERAGE SULFUR CONTENT (%)			.30	.10	.10	19
20	GAS: CONSUMPTION (1,000 MCF)						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)						21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	10	7	5	3	5	22
23	- NO. OF WET BOTTOM	8			3	4	23
24	- NO. WITH FLY ASH REINJECTION			1	3		24
25	- NO. WITH MECHANICAL PRECIPITATORS	10		1	3	2	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	3	6	1			26
27	- NO. WITH COMBINATION PRECIPITATORS 4/					1	27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	20 30.00	20.00 20.00	30.00 36.00	20.00	19.00 20.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	80.00 91.10			80.00	80.00	30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH			88.00			32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	99.00	97.00 99.00	98.00		96.60	33
34	TESTED, LOW - HIGH		91.00 87.60			94.78 97.70	34
35	EST., LOW - HIGH	99.00	97.00	98.00		68.00 98.00	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.66	34.13	.55	4.21	87.49	39
40	SULFUR OIOXIDE (1,000 TONS)	25.87	313.24	3.57	120.66	354.58	40
41	NITROGEN OXIDES (1,000 TONS)	4.58	48.11	.44	43.31	63.62	41
42	STACKS: - TOTAL NO.	9	4	4	2	4	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	550.00 650.00	1,000.00	47.50 180.00	600.00	298.00 825.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	80.80	832.30	5.40	192.60	752.40	45
46	SOLD (1,000 TONS) 11/		29.00		141.30	21.50	46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	530.00					50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	2,686.00	3,498.00				51
52	COMBINATION PRECIPITATORS ($1,000) 4/					1,885.00	52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	1,335.00	7,609.00			1,421.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	131.90	1,372.00	20.10			55
56	REVENUES FROM SALE OF ASH ($1,000)		12.50				56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	133.60	1,494.80	20.40			59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		12.50				60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R OHIO	R OHIO	C NORWALK	R OHIO	R MUSKINGUM	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	323.60	2,705.20	40.85	808.00	1,040.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	323.60	2,705.20	40.85	808.00	1,029.70	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	2.40			8.95	10.30	64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	JUL DEC	DEC		AUG DEC	AUG DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	85.00 51.00	50.00		85.00 52.00	83.00 49.00	66
67	AT OUTFALL, SUMMER - WINTER	92.00 63.70	75.00		98.00 65.00	95.00 67.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						68
69	- WINTER	60,200.00	60,200.00		58,400.00	16,974.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, ON 16/			C			70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP				.25	.16	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	232.37	320.38	.37	.15	45.00	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP				5.05	2.60	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	36.00			42.00	5.50	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES		YES	YES YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	ST	ST	PS	ST	OT	77
78	RECEIVING WATER BODY	R OHIO	R OHIO		R OHIO	R MUSKINGUM	78
79	POND DISCHARGE 18/: PH, BOILER BLOWDOWN - ASH SETTLING		7.10		6.90	6.00	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					25.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING				45,000.00	330,000.00	81

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 19/: ONCE THROUGH COOLING (FRESH)	7 315.75	7 2,303.50		3 712.50	4 914.40	83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING PONDS			5 31.33			85
86	COOLING TOWERS					1 590.80	86
87	COMBINATIONS 4/						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1925 1949	1959 1971	1935 1969	1950 1959	1955 1968	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 20/	8.00 14.00	15.70 19.90	15.00	12.20	12.20 22.60	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	790.92	2,587.60	83.60	1,016.10	1,753.50	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	790.92	2,587.60		1,070.00	1,365.00	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	346.70	12,963.00				92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)					3,435.00	94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	69.40	604.20	30.60			95
96	COST OF CHEMICAL ADDITIVES ($1,000)	3.90	23.50		4.60	41.00	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	22.80	76.30	3.20			97
98	COST OF CHEMICAL ADDITIVES ($1,000)	27.70	85.60	.10	4.80	16.00	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	OHIO POWER CO.	OHIO POWER CO.	OHIO POWER CO.	OHIO POWER CO.	OHIO VALLEY ELECTRIC COOP.	
NAME OF PLANT	PHILO	TIDD	WOODCOCK	MITCHELL	KYGER CREEK	
UTILITY-PLANT CODE	355000-0300	355000-0400	355000-0500	355000-0600	356000-0100	
STATE	OHIO	OHIO	OHIO	WEST VIRGINIA	OHIO	
COUNTY	MUSKINGUM	JEFFERSON	ALLEN	MARSHALL	GALLIA	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	183 OS	181 OS	177 04	181 05	103 OS	
PLANT CAPACITY (MW)	500.00	226.30	37.50	1,632.60	1,086.00	
ANNUAL GENERATION (MWH)[3]	1,351,600	1,041,700	82,000	9,508,400	8,150,100	
PLANT HEAT RATE (BTU/KWH)[3]	12,522	12,146	18,389	9,473	9,408	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	804.30	546.90	55.80	3,841.80	3,489.00	
AVERAGE HEAT CONTENT (BTU/LB)	10,528	11,943	13,032	11,601	11,586	
AVERAGE SULFUR CONTENT (%)	4.01	3.18	3.00	3.35	3.89	
AVERAGE ASH CONTENT (%)	18.05	12.99	12.60	15.20	14.52	
AVERAGE MOISTURE CONTENT (%)	7.87	5.75		5.88	6.66	
OIL: CONSUMPTION (1,000 BARRELS)	8.10	7.70	9.30	67.00		
AVERAGE HEAT CONTENT (BTU/GAL)	136,825	138,400	138,767	138,812		
AVERAGE SULFUR CONTENT (%)	.10	.10	.10	.10		
GAS: CONSUMPTION (1,000 MCF)						
AVERAGE HEAT CONTENT (BTU/CU.FT.)						

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	13	3	5	2	5	
- NO. OF WET BOTTOM	1				5	
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS	6	3	1			
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS[4]				2		
- NO. WITH DESULFURIZATION SYSTEMS					5	
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]						
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	20.00	20.00	20.00	18.00	17.50	
TESTED, LOW - HIGH		85.00				
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH						
TESTED, LOW - HIGH				98.50	96.10	
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH					96.10	
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	86.08	9.06	5.97	7.45	12.84	
SULFUR DIOXIDE (1,000 TONS)	63.22	34.09	3.28	252.28	266.02	
NITROGEN OXIDES (1,000 TONS)	12.36	4.94	.52	34.72	52.34	
STACKS: - TOTAL NO.	S	3	2	1	3	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	90.00 182.00	247.00	165.00	1,203.00	538.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]	123.10	48.10	1.90	553.60	497.00	
SOLD (1,000 TONS)[11]	22.50			23.60	240.00	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000)[4]				6,852.00		
DESULFURIZATION SYSTEMS ($1,000)					2,675.00	
STACKS ($1,000)						
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)				7,725.00	2,211.00	
REVENUES FROM SALE OF ASH ($1,000)	63.60		.40		764.00	
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	5.60				84.00	
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]						
TOTAL BYPRODUCT SALES REVENUES ($1,000)	65.30		.40		807.00	
	5.55				84.00	

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MUSKINGUM	R OHIO	O NATL. QUARRY	R OHIO	R OHIO	
AVERAGE RATE OF WITHDRAWAL (CFS)	782.70	401.07		70.00	1,740.00	
AVERAGE RATE OF DISCHARGE (CFS)	782.70	400.98			1,740.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]		.09				
PEAK LOAD MONTH : SUMMER - WINTER[15]	6.73	3.49		70.00	14.96	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	AUG OEC	AUG OEC	AUG OEC	AUG OEC	APR OEC	
AT OUTFALL, SUMMER - WINTER	86.00 52.00	85.00 45.00	90.00 63.00	83.20 69.20	98.00 53.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	100.00 64.00	61.00	169.00 85.00		70.40 64.90	
- WINTER	2,000.00	17.56				
FREQUENCY OF TEMPERATURE MONITORING: C, M, O, O[16]	11,200.00	65.94				
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP						
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	8.60	.05		.01		
LIME (TONS), COOLING WATER - BOILER MAKEUP		5.25		285.15		
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	50.00	5.70 .30		74.00 1.50	230.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	OT		PS	OT	OT	
RECEIVING WATER BODY	R MUSKINGUM				R OHIO	
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	7.00	8.50	7.80	8.80	7.40	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	30.00	20.00		35.00		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING	165,000.00	4,900.00	2,000.00	280,000.00	269.83	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	5 444.00	2 222.20			5 1,086.30	
ONCE THROUGH COOLING (SALINE)						
COOLING PONDS(S)			5 37.50			
COOLING TOWERS(S)				2 1,632.60		
COMBINATIONS[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1924' 1957	1945 1948	1938 1950	1971	1955	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	10.40 13.10	13.00	11.80	26.30	12.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	554.10	423.40	75.80	1,334.00	1,693.50	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	985.00	424.00			1,693.50	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)						
COOLING PONDS ($1,000)					2,880.00	
COOLING TOWERS ($1,000)				9,292.00		

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)						
COST OF CHEMICAL ADDITIVES ($1,000)	6.00	.80		8.00	224.00	
					14.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)						
COST OF CHEMICAL ADDITIVES ($1,000)	15.80	2.80	20.52 8.10	38.00	35.00	
					7.00	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	OKLAHOMA GAS & ELECTRIC CO.	OKLAHOMA GAS & ELECTRIC CO.	OKLAHOMA GAS & ELECTRIC CO.	OKLAHOMA GAS & ELECTRIC CO.	OKLAHOMA GAS & ELECTRIC CO.	
NAME OF PLANT	ARBUCKLE	BELLE ISLE	HORSESHOE LAKE	MUSTANG	OSAGE	
UTILITY-PLANT CODE	356500-0100	356500-0200	356500-0500	356500-0600	356500-0700	
STATE	OKLAHOMA	OKLAHOMA	OKLAHOMA	OKLAHOMA	OKLAHOMA	
COUNTY	MURRAY	OKLAHOMA	OKLAHOMA	OKLAHOMA	KAY	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	188 11	184 11	184 11	185 11	185 11	
PLANT CAPACITY (MW)	73.50	55.00	916.23	509.30	40.00	
ANNUAL GENERATION (MWH)[3]	317,000	80,500	4,010,000	3,214,500	130,400	
PLANT HEAT RATE (BTU/KWH)[3]	12,598	17,383	10,187	10,740	15,941	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)				.60	1.56	
AVERAGE HEAT CONTENT (BTU/LB)				12,971	11,350	
AVERAGE SULFUR CONTENT (%)				1.30	2.10	
AVERAGE ASH CONTENT (%)				10.00	11.00	
AVERAGE MOISTURE CONTENT (%)				10.50	9.10	
OIL: CONSUMPTION (1,000 BARRELS)	.82	5.97	11.39	.08		
AVERAGE HEAT CONTENT (BTU/GAL)	137,748	145,504	147,397	126,353		
AVERAGE SULFUR CONTENT (%)	.10	.10	1.00	.40		
GAS: CONSUMPTION (1,000 MCF)	3,846.47	1,305.00	34,860.00	32,594.00	1,960.50	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1.037	1,043	1.035	1.037	1,043	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	1	3	9	4	3	
- NO. OF WET BOTTOM			1	2	2	
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	5.00	10.00	7.00 16.00	7.00 16.00	7.00 15.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)				.04	.11	
SULFUR DIOXIDE (1,000 TONS)				.02	.06	
NITROGEN OXIDES (1,000 TONS)	.75	.27	6.80	6.36	.40	
STACKS: - TOTAL NO.	1	1	8	4	2	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	140.00	275.50	189.00	250.00	154.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]						
SOLD (1,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	16.70	18.00	332.20	277.50	24.30	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]						
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	O LOCAL RUNOFF	R NORTH CANADIAN	M	R ARKANSAS	
AVERAGE RATE OF WITHDRAWAL (CFS)	1.11	16.16	13.23	7.04	77.40	
AVERAGE RATE OF DISCHARGE (CFS)	.28	15.61	6.61	1.76	77.40	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.83	.55	6.62	5.28	.16	
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG JAN	AUG JAN	AUG JAN	AUG JAN	AUG JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	91.00 82.00	52.00	69.00	89.00 83.00	82.00 55.00	
AT OUTFALL, SUMMER - WINTER	91.00 82.00			89.00 83.00	102.00 64.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		31.58	100.00		3,000.00	
- WINTER						
FREQUENCY OF TEMPERATURE MONITORING: C, M, O, OT[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS)[1], COOLING WATER - BOILER MAKEUP			184.00	7.18		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		1.25				
LIME (TONS), COOLING WATER - BOILER MAKEUP	12.81 .90			12.83		
ALUM (TONS), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	1.06					
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	ST	ST	ST	ST	ST	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]						
RECEIVING WATER BODY						
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING						
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)					2 40.00	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)						
COOLING TOWER(S)	1 73.50	2 55.00	1 442.80	4 509.30		
COMBINATION[21]			3 473.43			
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1953	1930	1934 1969	1950 1959	1948	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	17.00	15.00	13.00 19.00	15.50 22.50	15.80	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	134.00	141.20	1,314.80	583.60	91.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)					91.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)					69.50	
COOLING PONDS ($1,000)		179.40	2,117.00			
COOLING TOWERS ($1,000)	740.00	66.40	1,926.00	4,125.60		

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	19.20	1.00	57.00	110.60	60.60	
COST OF CHEMICAL ADDITIVES ($1,000)	18.90		25.40	46.40		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	1.50	1.00	63.00	5.40	1.00	
COST OF CHEMICAL ADDITIVES ($1,000)	1.00	1.00	25.00	1.00	1.00	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	OKLAHOMA GAS & ELECTRIC CO.	OKLAHOMA GAS AND ELECTRIC CO.	OMAHA PUBLIC POWER DISTRICT	OMAHA PUBLIC POWER DISTRICT	OMAHA PUBLIC POWER DISTRICT	
NAME OF PLANT	RIVERBANK	SEMINOLE	FORT CALHOUN	JONES STREET	NORTH OMAHA	
UTILITY-PLANT CODE	356500-0800	356500-1100	357000-0050	357000-0100	357000-0200	
STATE	OKLAHOMA	OKLAHOMA	NEBRASKA	NEBRASKA	NEBRASKA	
COUNTY	MUSKOGEE	SEMINOLE	WASHINGTON	DOUGLAS	DOUGLAS	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	106 11	108 11	146 10	085 10	085 10	
PLANT CAPACITY (MW)	195.90	1,134.00	455.00	164.00	646.00	
ANNUAL GENERATION (MWH)[3]	1,181,720	5,725,700	588,000	133,200	3,602,900	
PLANT HEAT RATE (BTU/KWH)[3]	10,455	9,889	11,491	15,885	9,931	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)				17.30	859.80	
AVERAGE HEAT CONTENT (BTU/LB)				11,793	10,953	
AVERAGE SULFUR CONTENT (%)				3.02	1.48	
AVERAGE ASH CONTENT (%)				11.22	9.12	
AVERAGE MOISTURE CONTENT (%)				8.68	11.72	
OIL: CONSUMPTION (1,000 BARRELS)	2.58	3.80		10.10		
AVERAGE HEAT CONTENT (BTU/GAL)	152,051	137,611		137,285		
AVERAGE SULFUR CONTENT (%)	1.00	.10		.27		
GAS: CONSUMPTION (1,000 MCF)	11,898.00	54,765.00		1,659.60	17,146.70	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,037	1,027		994	997	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	7	2		8	5	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS				3		
- NO. WITH COMBINATION PRECIPITATORS[4]					2	
- NO. WITH DESULFURIZATION SYSTEMS					3	
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]						
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	7.00 20.00	6.00		25.00 40.00	20.00 25.00	
TESTED, LOW - HIGH				85.00		
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH				85.00		
TESTED, LOW - HIGH					96.00 98.00	
EST., LOW - HIGH					95.60 96.10	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH					96.00 98.00	
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)				1.10	2.29	
SULFUR DIOXIDE (1,000 TONS)	.01			1.04	24.94	
NITROGEN OXIDES (1,000 TONS)	2.33	10.69		.48	11.08	
STACKS: - TOTAL NO.	3	4		5	5	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	176.00 268.00	178.00		147.00 250.00	200.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]				1.40	76.40	
SOLD (1,000 TONS)[11]					4.30	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				148.50		
ELECTROSTATIC PRECIPITATORS ($1,000)					647.00	
COMBINATION PRECIPITATORS ($1,000)[4]					776.00	
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	187.10	242.00		210.90	494.90	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)				22.67	73.37	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]				22.67	73.37	
TOTAL BYPRODUCT SALES REVENUES ($1,000)					.43	

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R ARKANSAS	R SOUTH CANADIAN	R MISSOURI	R MISSOURI	R MISSOURI	
AVERAGE RATE OF WITHDRAWAL (CFS)	138.50	29.28	578.00	41.35	730.10	
AVERAGE RATE OF DISCHARGE (CFS)	138.50	16.18	578.00	41.35	730.10	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	2.40	13.10				
PEAK LOAD MONTH : SUMMER - WINTER[15]	1.19	4.97		.96	6.28	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	AUG JAN	AUG JAN	AUG JAN	AUG JAN	AUG JAN	
AT OUTFALL, SUMMER - WINTER	87.00 48.00	81.00	84.00	84/00 36.00	80.00 35.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	105.00 72.00	87.00 50.00	84.00	102.00 70.00	95.00 53.00	
- WINTER	2,680.00	330.00	26,020.00	26,020.00	26,020.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]			C			
CHEMICAL ADDITIVES: PHOSPHATE (TONS)[1], COOLING WATER - BOILER MAKEUP			1.30	.80	1.05	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	26.25	49.50	64.57	69.05	44.10	
LIME (TONS), COOLING WATER - BOILER MAKEUP			90.60	87.00		
ALUM (TONS), COOLING WATER - BOILER MAKEUP			18.00			
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		12.00				
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP		1.40 .90				
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[17]	YES	YES	YES	YES	YES	
RECEIVING WATER BODY	OT/SW	ST	OT	PS	PS	
POND DISCHARGE[18]: PH, BOILER BLOWDOWN - ASH SETTLING	R ARKANSAS		R MISSOURI			
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					9.00 10.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN					50.00 100.00	
- ASH SETTLING					56,032.70	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[19]: ONCE THROUGH COOLING (FRESH)	3 195.90		1 455.00	7 173.50	5 644.70	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)						
COOLING TOWER(S)		2 1,134.00				
COMBINATIONS[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM						
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	1924 1956	1971 1973	1972	1917 1951	1936 1968	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	12.00 20.20	15.80	18.00	12.00 15.40	14.00 17.50	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	252.60	1,414.40	701.80	412.30	797.80	
	258.70		701.80	412.30	841.30	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	1,007.70		4,671.00	1,023.00	4,595.40	
COOLING PONDS ($1,000)		7,503.00				
COOLING TOWERS ($1,000)				88.80		

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	7.80	12.70	6.82	17.14	35.97	
COST OF CHEMICAL ADDITIVES ($1,000)		2.40				

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	2.90	3.50	25.00	19.83	24.56	
COST OF CHEMICAL ADDITIVES ($1,000)	3.50	11.80	36.70	35.04	24.35	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

NAME OF UTILITY	OPELOUSAS, CITY OF	ORANGE & ROCKLAND UTIL. INC.	ORANGE & ROCKLAND UTIL. INC.	ORLANDO UTILITIES COMM.	ORLANDO UTILITIES COMM.
NAME OF PLANT	OPELOUSAS #2	LOVETT	BOWLINE POINT	INDIAN RIVER	LAKE HIGHLAND
UTILITY-PLANT CODE	350500-0200	559000-0200	559000-0700	361000-0100	361000-0200
STATE	LOUISIANA	NEW YORK	NEW YORK	FLORIDA	FLORIDA
COUNTY	ST. LANDRY	ROCKLAND	ROCKLAND	BREVARD	ORANGE
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	106 08	043 02	043 02	045 03	045 03
PLANT CAPACITY (MW)	38.00	495.12	621.00	258.50	96.00
ANNUAL GENERATION (MWH) [3]	62,263	2,666,900	5,154,900	1,682,500	271,100
PLANT HEAT RATE (BTU/KWH) [3]	14,295	10,899	9,792	10,497	14,048

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT (%)						
OIL: CONSUMPTION (1,000 BARRELS)		3,031.00	4,996.38	1,402.71	206.55
AVERAGE HEAT CONTENT (BTU/GAL)		146,058	145,213	148,957	151,512
AVERAGE SULFUR CONTENT (%)		.71	.31	1.79	1.80
GAS: CONSUMPTION (1,000 MCF)	1,142.18	10,171.10	167.85	8,438.89	2,381.28
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,030	1,029	1,030	1,053	1,053

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	5	1	2	4
- NO. OF WET BOTTOM					
- NO. WITH FLY ASH REINJECTION					
- NO. WITH MECHANICAL PRECIPITATORS		5			
- NO. WITH ELECTROSTATIC PRECIPITATORS		2			
- NO. WITH COMBINATION PRECIPITATORS [4]					
- NO. WITH DESULFURIZATION SYSTEMS					
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]					
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH		20.00 25.00	7.00	8.75 12.00	14.00 26.40
TESTED, LOW - HIGH		85.00			
ESTIMATED, LOW - HIGH		85.00			
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH		95.00			
TESTED, LOW - HIGH					
EST., LOW - HIGH		92.00			
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH					
TESTED, LOW - HIGH					
ESTIMATED, LOW - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)		.05	.84	.22	.03
SULFUR OIOXIDE (1,000 TONS)		7.23	5.20	7.82	1.25
NITROGEN OXIDES (1,000 TONS)	.22	8.67	11.05	4.36	.92
STACKS: - TOTAL NO.	2	5	1	1	4
- HEIGHT (FEET), LOWEST - HIGHEST [8]	175.00	255.00	296.00	300.00	101.50
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]				.11	
TOTAL ASH: COLLECTED (1,000 TONS) [10]					
SOLD (1,000 TONS) [11]					
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]					
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		139.12			
ELECTROSTATIC PRECIPITATORS ($1,000)		634.92			
COMBINATION PRECIPITATORS ($1,000) [4]					
DESULFURIZATION SYSTEMS ($1,000)					
STACKS ($1,000)	26.00	278.76	925.00	140.00	1,060.00
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)					
REVENUES FROM SALE OF ASH ($1,000)					
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)					
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)					
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]					
TOTAL BYPRODUCT SALES REVENUES ($1,000)					

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	N	R HUDSON	R HUDSON	R INDIAN	O SPRINGS/RUNOFF
AVERAGE RATE OF WITHDRAWAL (CFS)		735.00	856.00	520.00	106.20
AVERAGE RATE OF DISCHARGE (CFS)		735.00	856.00	520.00	106.20
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]					
PEAK LOAD MONTH: SUMMER - WINTER [15]		6.32 AUG	7.36 AUG	4.47 AUG	.91 AUG
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		86.00 OEC	86.00 OEC	92.00 OEC	93.00 OEC
AT OUTFALL, SUMMER - WINTER		103.00 69.00	98.00 61.00	105.00 81.00	111.00 89.00
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		35,700.00	35,700.00		
- WINTER		35,700.00	35,700.00		
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OT [16]			H		
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.68	.54	.15	1.15
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.21	38.62	163.09		.10
LIME (TONS), COOLING WATER - BOILER MAKEUP	.09			9.10	5.00
ALUM (TONS), COOLING WATER - BOILER MAKEUP					
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		3.23		71.50 .55	17.00
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES YES	YES YES	YES	YES	YES
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [16]	PS	OT	PS	ST	PS
RECEIVING WATER BODY		R HUDSON			
POND DISCHARGE [17]: PH, BOILER BLOWDOWN - ASH SETTLING		6.70			
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		12.00			
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING					

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [18]: ONCE THROUGH COOLING (FRESH)					3 103.75
ONCE THROUGH COOLING (SALINE)		5 495.12	1 621.00	2 258.50	
COOLING PONDS					
COOLING TOWERS	2 58.50				
COMBINATIONS [4]					
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1965 1970	1949 1969	1972	1960 1964	1949 1956
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [19]		12.00 15.50	14.90	9.58 10.88	15.00 15.70
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	11.00 73.70	705.00	837.00	543.00	180.50
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		734.00	856.00	543.00	180.50

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)		2,025.18		1,980.00	2,250.00
COOLING PONDS ($1,000)					
COOLING TOWERS ($1,000)	125.00				

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	14.50			44.68	40.00
COST OF CHEMICAL ADDITIVES ($1,000)	5.20		.31		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	92.00		66.75	19.15	4.00
COST OF CHEMICAL ADDITIVES ($1,000)	5.60		44.10		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1 NAME OF UTILITY	OTTER TAIL POWER CO.	OWATONNA MUN PUBLIC UTILS	OWENSBORO MUNICIPAL UTIL.	OWENSBORO MUNICIPAL UTIL.	PACIFIC GAS & ELECTRIC CO.	1
2						2
3						3
4 NAME OF PLANT	HOOT LAKE	OWATONNA	SMITH	OWENSBORO #1	AVON	4
5 UTILITY-PLANT CODE	365500-1400	366500-0100	367000-0100	367000-0200	370000-0300	5
6 STATE	MINNESOTA	MINNESOTA	KENTUCKY	KENTUCKY	CALIFORNIA	6
7 COUNTY	OTTER TAIL	STEELE	DAVIESS	DAVIESS	CONTRA COSTA	7
8 AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	132 09	128 07	077 05	077 05	030 18	8
9 PLANT CAPACITY (MW)	136.90	34.50	151.00	45.00	40.00	9
10 ANNUAL GENERATION (MWH) 3/	868,000	103,912	1,032,849	91,625	296,200	10
11 PLANT HEAT RATE (BTU/KWH) 3/	12,040	16,061	10,276	16,058	18,386	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)	735.67		478.00	66.90			12
13 AVERAGE HEAT CONTENT (BTU/LB)	7,093		10,993	11,027			13
14 AVERAGE SULFUR CONTENT (%)	.72		3.11	3.12			14
15 AVERAGE ASH CONTENT (%)	6.16		10.48	10.35			15
16 AVERAGE MOISTURE CONTENT (%)	35.14		12.11	12.03			16
17 OIL: CONSUMPTION (1,000 BARRELS)	1.03	61.90			90.65		17
18 AVERAGE HEAT CONTENT (BTU/GAL)	140,000	150,000			153,924		18
19 AVERAGE SULFUR CONTENT (%)	.50	3.50			.40		19
20 GAS: CONSUMPTION (1,000 MCF)		1,279.00			4,233.12		20
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,000			1,123		21

PLANT EQUIPMENT DATA

22 BOILERS: - TOTAL NO.	3		6		1	4		3	22
23 - NO. OF WET BOTTOM					1				23
24 - NO. WITH FLY ASH REINJECTION					1				24
25 - NO. WITH MECHANICAL PRECIPITATORS	3								25
26 - NO. WITH ELECTROSTATIC PRECIPITATORS	2				1				26
27 - NO. WITH COMBINATION PRECIPITATORS 4/						4			27
28 - NO. WITH DESULFURIZATION SYSTEMS									28
29 - EXCESS AIR USED I%), LOWEST BOILER - HIGHEST BOILER 5/	17.00 40.00	22.00 40.00			16.00	20.00 22.00		10.00	29
30 MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	72.00 90.50								30
31 TESTED, LOW - HIGH	73.50								31
32 ESTIMATED, LOW - HIGH	70.00								32
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	99.00				97.00	98.00 98.50			33
34 TESTED, LOW - HIGH	99.40 99.70				97.40				34
35 EST., LOW - HIGH	99.00				97.00	98.00			35
36 DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH									36
37 TESTED, LOW - HIGH									37
38 ESTIMATED, LOW - HIGH									38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.91		.01	.17		.12		.02	39
40 SULFUR DIOXIDE (1,000 TONS)	10.38		.76	29.14		4.09		.12	40
41 NITROGEN OXIDES (1,000 TONS)	6.55		.39	13.15		.60		1.03	41
42 STACKS: - TOTAL NO.	2		4	1		2		3	42
43 - HEIGHT (FEET), LOWEST - HIGHEST 8/	133.00 225.00	62.00 109.00		300.00		152.00		200.00	43
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/									44
45 TOTAL ASH: COLLECTED (1,000 TONS) 10/	43.70			50.00		6.50			45
46 SOLD (1,000 TONS) 11/	10.10								46
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)									47
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS 12/									48
49 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)									49
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	232.40								50
51 ELECTROSTATIC PRECIPITATORS ($1,000)	1,950.00			610.00					51
52 COMBINATION PRECIPITATORS ($1,000) 4/						249.00			52
53 DESULFURIZATION SYSTEMS ($1,000)									53
54 STACKS ($1,000)	133.70					103.10		558.00	54
55 ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	56.70			59.00		27.60			55
56 REVENUES FROM SALE OF ASH ($1,000)	50.80								56
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)									57
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)									58
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	56.70			59.00		27.60			59
60 TOTAL BYPRODUCT SALES REVENUES ($1,000)	50.80								60

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R OTTER TAIL			R OHIO		R OHIO		B SUISUN	61
62 AVERAGE RATE OF WITHDRAWAL (CFS)	105.08			136.00		82.50			62
63 AVERAGE RATE OF DISCHARGE (CFS)	104.97			136.00		82.50			63
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	.11			1.17		.71			64
65 PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG DEC			AUG DEC		AUG DEC			65
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	78.00 35.00			80.00 42.00		80.00 42.00			66
67 AT OUTFALL, SUMMER - WINTER	96.00 67.00			106.00 82.00		105.00 82.00			67
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	227.00			47,000.00		47,000.00			68
69 - WINTER	459.40			222,000.00		222,000.00			69
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D 16/									70
71 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.40 .12	.06 .24		.06		.14		11.00	71
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.27	.13		.06		.09		1.30	72
73 LIME (TONS), COOLING WATER - BOILER MAKEUP								125.50	73
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP									74
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.53			7.50					75
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES YES	YES YES		YES		YES		YES YES	76
77 SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	ST			ST		PS		ST	77
78 RECEIVING WATER BODY									78
79 PONO DISCHARGE 18/: PH, BOILER BLOWDOWN - ASH SETTLING	10.80			10.00 7.00					79
80 SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	150.00			25.00 10.00					80
81 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	4,720.00			371.00					81
82 - ASH SETTLING				8,670.00					82

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (MW) USING 19/: ONCE THROUGH COOLING (FRESH)				1 151.00		4 52.50			83
84 ONCE THROUGH COOLING (SALINE)									84
85 COOLING PONDS									85
86 COOLING TOWERS									86
87 COMBINATION 20/								1 40.00	87
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	3 136.90								88
89 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	1948 1964			1963		1939 1954		1940	89
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	12.00 22.00			20.00		15.00		15.00	90
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	179.80			181.00		93.90		43.60	91
	180.00			185.00		120.00			91

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTEMS ($1,000)	911.00		768.00	296.00			92
93 COOLING PONDS ($1,000)							93
94 COOLING TOWERS ($1,000)	542.00					160.00	94

ANNUAL COOLING WATER EXPENSES

95 OPERATION AND MAINTENANCE EXPENSES ($1,000)	1.50	41.67	35.00	8.10			95
96 COST OF CHEMICAL ADDITIVES ($1,000)	2.00	12.06	.90			14.10	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION AND MAINTENANCE EXPENSES ($1,000)	36.37	4.19	15.00	12.00			97
98 COST OF CHEMICAL ADDITIVES ($1,000)	5.24	2.45	1.00	.70		29.70	98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	
NAME OF PLANT	CONTRA COSTA	HUMBOLOT BAY	HUNTERS POINT	KERN	MARTINEZ	
UTILITY-PLANT CODE	370000-1400	370000-3100	370000-3200	370000-3600	370000-4100	
STATE	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA	
COUNTY	CONTRA COSTA	HUMBOLOT	SAN FRANCISCO	KERN	CONTRA COSTA	
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	030 18	024 18	028 18	028 18	028 18	
PLANT CAPACITY (MW)	1,276.10	167.70	371.40	165.50	40.00	
ANNUAL GENERATION (MWH) 3/	3,997,500	273,500	1,515,000	3,700	237,900	
PLANT HEAT RATE (BTU/KWH) 3/	10,371	13,092	11,991	17,432	23,797	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT)%)						
OIL: CONSUMPTION (1,000 BARRELS)	365.72	11.45	106.81		348.70	
AVERAGE HEAT CONTENT (BTU/GAL)	150,907	160,262	149,394		153,886	
AVERAGE SULFUR CONTENT (%)	.50	1.50	.50		.50	
GAS: CONSUMPTION (1,000 MCF)	40,240.08	3,384.69	16,667.03	59.55	3,233.18	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,049	1,050	1,050	1,084	1,055	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	10	2	7	4	3	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS 4/						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%, LOWEST BOILER - HIGHEST BOILER 5/	15.00	15.00	15.00	15.00	10.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.06		.02		.06	
SULFUR DIOXIDE (1,000 TONS)	.61	.06	.18		.58	
NITROGEN OXIDES (1,000 TONS)	8.65	.69	3.49	.01	1.40	
STACKS: - TOTAL NO.	9	3	5	4	3	
- HEIGHT (FEET), LOWEST - HIGHEST 8/	200.00 450.00	150.00 250.00	150.00 250.00	140.00	200.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						
TOTAL ASH: COLLECTED (1,000 TONS) 10/						
SOLD (1,000 TONS) 11/						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000) 4/						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	4,928.00	498.00	1,597.00	684.00	162.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/						
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R SAN JOAQUIN	B HUMBOLOT	B SAN FRANCISCO	W	B SUISUN	
AVERAGE RATE OF WITHDRAWAL (CFS)	1.53	223.00	554.00			
AVERAGE RATE OF DISCHARGE (CFS)	1.53	223.00	554.00			
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	.01	2.70	4.70			
PEAK LOAD MONTH : SUMMER - WINTER 15/	JUL NOV	JUL NOV	JUL NOV			
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	78.00 53.00	60.50 55.00	65.00 53.00			
AT OUTFALL, SUMMER - WINTER	94.00 63.00	74.25 70.00	82.00 70.00			
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	10,000.00					
- WINTER	90,000.00					
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O 16/						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.85	.15	1.22	.03	6.20	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	1.61	.10	1.14	.06	8.93	
LIME (TONS), COOLING WATER - BOILER MAKEUP	8.15				146.00	
ALUM (TONS), COOLING WATER - BOILER MAKEUP			53.00			
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	5.00		YES	.50 YES	YES	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES					
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	ST	ST	PS	ST	ST	
RECEIVING WATER BODY						
POND DISCHARGE 19/: PH, BOILER BLOWDOWN - ASH SETTLING						
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)						
ONCE THROUGH COOLING (SALINE)	7 1,276.00	3 162.40	4 406.50			
COOLING PONDS				2 165.50	1 40.00	
COOLING TOWERS						
COMBINATION 21/						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1931 1964	1955 1961	1928 1959	1947 1948	1941	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	16.00 25.00	15.00 22.90	15.50		15.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,434.20	224.00	709.00	179.00	43.60	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,434.20	224.00	582.00			

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	3,391.00	1,539.00	2,365.00		
COOLING PONDS ($1,000)				1,114.00	165.00
COOLING TOWERS ($1,000)					

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)					10.60	
COST OF CHEMICAL ADDITIVES ($1,000)	3.00		21.20	.30		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)						
COST OF CHEMICAL ADDITIVES ($1,000)	3.00	.10	1.10	.30	28.90	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.		
NAME OF PLANT	MORRO BAY	MOSS LANDING	OLEUM	PITTSBURG	POTRERO		
UTILITY-PLANT CODE	370000-4400	370000-4500	370000-4900	370000-5700	370000-5900		
STATE	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA		
COUNTY	SAN LUIS OBISPO	MONTEREY	CONTRA COSTA	CONTRA COSTA	SAN FRANCISCO		
AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	032 18	025 18	030 18	030 18	030 18		
PLANT CAPACITY (MW)	1,056.30	2,174.70	80.00	2,028.90	317.90		
ANNUAL GENERATION (MWH) [3]	4,573,700	9,300,400	166,400	8,196,900	1,382,300		
PLANT HEAT RATE (BTU/KWH) [3]	9,588	9,373	32,481	10,342	10,934		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)							
AVERAGE HEAT CONTENT (BTU/LB)							
AVERAGE SULFUR CONTENT (%)							
AVERAGE ASH CONTENT (%)							
AVERAGE MOISTURE CONTENT (%)							
OIL: CONSUMPTION (1,000 BARRELS)	788.48	2,708.85	3.46	1,682.68	113.19		
AVERAGE HEAT CONTENT (BTU/GAL)	147,333	147,142	151,200	148,816	149,869		
AVERAGE SULFUR CONTENT (%)	.50	.50	.50	.50	.46		
GAS: CONSUMPTION (1,000 MCF)	35,964.70	65,088.84	5,102.33	70,076.70	13,713.16		
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,084	1,083	1,055	1,060	1,050		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	4	10	6	7	4		
- NO. OF WET BOTTOM							
- NO. WITH FLY ASH REINJECTION							
- NO. WITH MECHANICAL PRECIPITATORS							
- NO. WITH ELECTROSTATIC PRECIPITATORS							
- NO. WITH COMBINATION PRECIPITATORS [4]							
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	10.00 15.00	7.00 11.00	10.00	7.00 12.00	8.00 15.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
EST., LOW - HIGH							
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.13	.46		.28	.02		
SULFUR DIOXIDE (1,000 TONS)	1.32	4.54	.01	2.82	.17		
NITROGEN OXIDES (1,000 TONS)	8.75	18.67	1.00	17.38	2.92		
STACKS: - TOTAL NO.	3	10	6	7	2		
- HEIGHT (FEET), LOWEST - HIGHEST [8]	450.00	224.50 500.00	250.00	212.00 450.00	200.00 300.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]							
TOTAL ASH: COLLECTED (1,000 TONS) [10]							
SOLD (1,000 TONS) [11]							
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)							
ELECTROSTATIC PRECIPITATORS ($1,000)							
COMBINATION PRECIPITATORS ($1,000) [4]							
DESULFURIZATION SYSTEMS ($1,000)		830.00			513.00		
STACKS ($1,000)	4,108.00	8,060.00	432.00	7,210.00	795.00		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF ASH ($1,000)							
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]				4.00			
TOTAL BYPRODUCT SALES REVENUES ($1,000)							

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	B MORRO	B MONTEREY	B SAN FRANCISCO	B SUISUN	B SAN FRANCISCO		
AVERAGE RATE OF WITHDRAWAL (CFS)	683.00	1,178.00	89.00	1,240.00	564.00		
AVERAGE RATE OF DISCHARGE (CFS)	683.00	1,178.80	89.00	1,227.00	564.00		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	5.87	10.13	.77	10.66 13.00	4.85		
PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL NOV	JUL NOV	JUL NOV	JUL NOV	JUL NOV		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	64.00 57.00	58.00 55.00	75.00 55.00	76.00 65.00	65.00 53.00		
AT OUTFALL, SUMMER - WINTER	86.00 81.00	77.00 70.00	80.00 62.00	92.00 78.00	82.00 70.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER				170,000.00			
- WINTER				170,000.00			
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O [16]							
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.65	1.45	12.88	2.25	.01		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.50	1.35	13.57	1.75	.53		
LIME (TONS), COOLING WATER - BOILER MAKEUP		44.08		90.00			
ALUM (TONS), COOLING WATER - BOILER MAKEUP							
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	7.00	28.00		28.00	48.00		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES YES	YES YES	YES YES	YES	YES YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	ST	ST	PS	PS		
RECEIVING WATER BODY							
POND DISCHARGE? [19] PH, BOILER BLOWDOWN - ASH SETTLING							
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING							
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							
- ASH SETTLING							

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)				6 1,278.00			
ONCE THROUGH COOLING (SALINE)	4 1,056.20	7 2,174.70	2 80.00		3 317.90		
COOLING POND(S)				1 751.10			
COOLING TOWER(S)							
COMBINATION [21]							
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1955 1963	1950 1968	1941 1943	1954 1972	1931 1964		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	14.50 18.10	13.70 23.80	15.00	15.00 17.50	15.00		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,118.00	1,849.00	87.20	2,365.00	465.00		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,120.00	978.00	89.10	791.40	323.60		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	5,986.00	12,913.00	449.00	3,342.00	1,683.00		
COOLING PONDS ($1,000)				7,873.00			
COOLING TOWERS ($1,000)							

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)							
COST OF CHEMICAL ADDITIVES ($1,000)	16.70	11.20	5.00	3.10	19.20		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)							
COST OF CHEMICAL ADDITIVES ($1,000)	2.00	17.30	20.40	36.20	3.70		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	PACIFIC GAS & ELECTRIC CO.	PACIFIC POWER & LIGHT CO	PACIFIC POWER & LIGHT CO.	PACIFIC POWER & LIGHT CO.	RASADENA LIGHT & POWER DEPT.	1
2							2
3							3
4	NAME OF PLANT	GEYSERS	CENTRALIA	JOHNSTON	LINCOLN	BROADWAY	4
5	UTILITY-PLANT CODE	3T0000-T200	3T0500-0450	3T0500-1200	3T0500-2300	3T4500-0100	5
6	STATE	CALIFORNIA	WASHINGTON	WYOMING	OREGON	CALIFORNIA	6
7	COUNTY	SONOMA	LEWIS	CONVERSE	MULTNOMAH	LOS ANGELES	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	030 18	193 17	261 10	193 1T	024 18	8
9	PLANT CAPACITY (MW)	440.60	1,329.80	T50.30	35.50	1T1.00	9
10	ANNUAL GENERATION (MWH)[3]	1,965,713	5,118,500	4,019,200	38,500	T16,600	10
11	PLANT HEAT RATE (BTU/KWH)[3]		11,142	10,446	32,509	11,230	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)		3,741.00	2,825.50			12
13	AVERAGE HEAT CONTENT (BTU/LB)		T,552	T,400			13
14	AVERAGE SULFUR CONTENT (%)		.49	.57			14
15	AVERAGE ASH CONTENT (%)		14.88	11.70			15
16	AVERAGE MOISTURE CONTENT (%)		26.33	27.74			16
17	OIL: CONSUMPTION (1,000 BARRELS)		88.90	22.60	112.60	962.70	1T
18	AVERAGE HEAT CONTENT (BTU/GAL)		141,000	138,500	135,163	150,000	18
19	AVERAGE SULFUR CONTENT (%)		.30	.30	.14	.30	19
20	GAS: CONSUMPTION (1,000 MCF)				I,855.00	I,88T.20	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)				I,032	I,054	21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.		2	4	T	3	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS			4		3	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		2				26
27	- NO. WITH COMBINATION PRECIPITATORS[4]						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[4]		20.00	20.00	10.00 15.00	8.00 10.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			82.00 99.80		92.00 94.00	30
31	TESTED, LOW - HIGH			55.50 85.60			31
32	ESTIMATED, LOW - HIGH			80.00 99.80		37.00 50.00	32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[4]: DESIGN, LOW - HIGH		99.40				33
34	TESTED, LOW - HIGH						34
35	EST., LOW - HIGH		98.10				35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
3T	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[1]: PARTICULATE MATTER (1,000 TONS)		8.99	27.54	.02	.05	39
40	SULFUR DIOXIDE (1,000 TONS)		36.02	31.59	.05	.9T	40
41	NITROGEN OXIDES (1,000 TONS)		33.8T	25.48	.61	2.49	41
42	STACKS: - TOTAL NO.		2	4	6	4	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[4]		470.00	249.00 250.00	69.00 88.00	120.00 140.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[4]						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[4]		556.90	304.70			45
46	SOLD (1,000 TONS)[4]			10.30			46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[4]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			10,T84.00		221.00	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)		10,249.00				51
52	COMBINATION PRECIPITATORS ($1,000)[4]						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)		2,057.00	991.00	41.40	105.T0	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		2T8.45	145.00			55
56	REVENUES FROM SALE OF ASH ($1,000)			32.50			56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[3]		398.45	341.00			59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)			32.50			60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, S, C, W, M & O EXPL. IN FOOTNOTES)	W	R SKOORUMCHUCK	R NORTH PLATTE	R WILLAMETTE	M	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)		18.70	280.40	93.60	2.40	62
63	AVERAGE RATE OF DISCHARGE (CFS)			2T1.20	93.60	.49	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[4]		18.T0	8.00	.08	1.92	64
65	PEAK LOAD MONTH : SUMMER - WINTER[4]			JUL NOV	AUG JAN		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER			59.00 70.00	78.00 45.00		66
67	AT OUTFALL, SUMMER - WINTER			106.00 111.00	92.00 52.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			1,253.00			68
69	- WINTER			4,257.00	55,430.00		69
T0	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[4]						T0
T1	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		6.T0	3.09 .3T	1.94	7.T9 .T1	T1
T2	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		224.13	.31	10.35	4.07	T2
T3	LIME (TONS), COOLING WATER - BOILER MAKEUP						T3
T4	ALUM (TONS), COOLING WATER - BOILER MAKEUP		5.45	3T.50			T4
T5	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		36.00	14.00			T5
T6	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[4]		YES	YES	YES	YES	T6
TT	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[4]	ST	OT	OT	PS	PS	TT
T8	RECEIVING WATER BODY		C HAMAFORO	R NORTH PLATTE			T8
T9	RDMD DISCHARGE[4]: PH, BOILER BLOWDOWN - ASH SETTLING			8.70			T9
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			10.00			80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING			94,600.00			82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING[4]: ONCE THROUGH COOLING (FRESH)			3 456.T0	3 35.50		83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING PONDS						85
86	COOLING TOWERS	10 440.60	2 1,329.80	1 330.30		3 1T1.00	86
8T	COMBINATION[4]						8T
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1939 1971	1971 1972	1959 1972	1919 1930	1934 1965	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[4]	36.00 40.40		27.30 32.30	9.50 13.50	15.88 21.80	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	T36.00	1,000.00	ST2.00	180.20	209.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)			318.00	180.20		91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)			3,232.00	322.00		92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)	7,645.00	9,892.00	1,650.00		662.00	94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)		90.00	49.90	19.03	14.30	95
96	COST OF CHEMICAL ADDITIVES ($1,000)		54.00	32.50		14.00	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)		282.00	36.00	5.64	6.50	97
98	COST OF CHEMICAL ADDITIVES ($1,000)		40.00	13.30	6.76	7.20	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	PASADENA LIGHT & POWER DEPT.	PELLA MUN PWR & LT	PENNSYLVANIA ELECTRIC CO.	PENNSYLVANIA ELECTRIC CO.	PENNSYLVANIA ELECTRIC CO.	1
2							2
3							3
4	NAME OF PLANT	GLENARM	PELLA	FRONT STREET	HONER CITY	KEYSTONE	4
5	UTILITY-PLANT CODE	374500-0200	378500-0100	379500-0300	379500-0350	379500-0400	5
6	STATE	CALIFORNIA	IOWA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	6
7	COUNTY	LOS ANGELES	MARION	ERIE	INDIANA	ARMSTRONG	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	024 18	092 07	[illegible] 04	[illegible] 05	197 05	8
9	PLANT CAPACITY (MW)	65.25	43.50	118.80	1,320.00	1,684.00	9
10	ANNUAL GENERATION (MWH)[3]	33,200	95,500	580,100	5,988,600	9,754,800	10
11	PLANT HEAT RATE (BTU/KWH)[3]	18,663	15,449	14,295	10,367	9,959	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)		78.13	358.10	2,544.40	4,084.90	12
13	AVERAGE HEAT CONTENT (BTU/LB)		9,410	12,101	11,766	11,640	13
14	AVERAGE SULFUR CONTENT (%)		6.43	2.12	2.40	2.24	14
15	AVERAGE ASH CONTENT (%)		17.24	13.17	19.30	20.36	15
16	AVERAGE MOISTURE CONTENT (%)		14.58	5.51	4.40	2.67	16
17	OIL: CONSUMPTION (1,000 BARRELS)	61.50	.93	5.94	65.73	83.95	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	150,000	140,000	138,800	138,800	138,800	18
19	AVERAGE SULFUR CONTENT (%)	.30	.05	.30	.30	.30	19
20	GAS: CONSUMPTION (1,000 MCF)	220.70					20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,054					21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	4	6	4	2	2	22
23	- NO. OF WET BOTTOM					2	23
24	- NO. WITH FLY ASH REINJECTION		4				24
25	- NO. WITH MECHANICAL PRECIPITATORS	4	2				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS			4	2	2	26
27	- NO. WITH COMBINATION PRECIPITATORS[4]		2				27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	12.00 15.00	15.00 35.00	15.00 15.50	20.00	20.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	94.00	80.00				30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH	50.00	80.00				32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH		95.00		99.50	99.50	33
34	TESTED, LOW - HIGH			89.00 99.10	99.50	93.30	34
35	EST., LOW - HIGH		95.00	88.50 97.10	98.80 99.40	99.00	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.01	1.14	2.00	3.61	5.41	39
40	SULFUR OIOXIOE (1,000 TONS)	.06	9.85	14.89	119.75	179.43	40
41	NITROGEN OXIOES (1,000 TONS)	.18	.59	3.24	23.04	61.46	41
42	STACKS: - TOTAL NO.	4	4	2	2	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	81.00 86.00	190.00	188.00 200.00	800.00	801.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]		13.32	44.80	488.10	827.40	45
46	SOLD (1,000 TONS)[11]				.70	53.80	46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	140.00	230.00				50
51	ELECTROSTATIC PRECIPITATORS ($1,000)			431.20	1,882.00	4,531.00	51
52	COMBINATION PRECIPITATORS ($1,000)[4]		230.00				52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	12.00		51.88	2,372.00	2,622.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)			134.20	1,288.70	2,390.70	55
56	REVENUES FROM SALE OF ASH ($1,000)					43.40	56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]			525.20	1,452.70	2,542.70	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)					43.40	60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	M	M	L ERIE	C TWO LICK	C CROOKED	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	.12	41.00	220.00	27.30	32.30	62
63	AVERAGE RATE OF DISCHARGE (CFS)	.03		220.00	3.60	16.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.10	41.00	1.69	23.70	16.30	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]			AUG OEC	AUG OEC	AUG OEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER			85.00 55.00	65.00 35.00	76.00 45.00	66
67	AT OUTFALL, SUMMER - WINTER			90.00 58.00	65.00 35.00	77.00 46.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER				36.70	46.00	68
69	- WINTER				564.00	470.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, O, O[16]						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.20 .01	.18 .10	.24			71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.10	.07	414.76	596.60	385.00	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP				2,566.50	1,256.96 1.50	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP					83.90 5.96	74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	1.30		1.20	13.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES YES	YES YES	YES YES	YES YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	OT	PS	OT	ST	77
78	RECEIVING WATER BODY		R SOUTH SKUNK		C TWO LICK		78
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING						79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING						82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)			5 124.00			83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING PONO(S)						85
86	COOLING TOWER(S)	2 65.25	4 45.50		2 1,320.00	2 1,640.00	86
87	COMBINATION[21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1948	1962 1972	1927 1955	1969	1967 1968	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]		1.40 15.50	20.00	28.00	27.40	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	140.00	93.20	223.00	1,590.00	1,100.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)			223.00			91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)			546.63			92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)	161.00	114.00		4,956.00	12,278.00	94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	7.40		23.40	106.10	225.90	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	1.90		6.60	198.00	136.20	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	3.70		60.70	240.60	159.10	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	.60		61.50	161.60	108.70	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	PENNSYLVANIA ELECTRIC CO.	PENNSYLVANIA ELECTRIC CO.	PENNSYLVANIA ELECTRIC CO.	PENNSYLVANIA ELECTRIC CO.	PENNSYLVANIA ELECTRIC CO.	
4	NAME OF PLANT	SAKTON	SEWARO	SHAWVILLE	WARREN	WILLIAMSBURG	
5	UTILITY-PLANT CODE	379500-0800	379500-1000	379500-1100	379500-1200	379500-1400	
6	STATE	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	
7	COUNTY	BEOFORD	INDIANA	CLEARFIELD	WARREN	BLAIR	
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	[illegible] 02	[illegible] 05	[illegible] 02	[illegible] 05	[illegible] 02	
9	PLANT CAPACITY (MW)	40.90	268.20	640.00	84.60	30.00	
10	ANNUAL GENERATION (MWH) 3/	103,600	1,435,200	4,314,600	461,500	210,000	
11	PLANT HEAT RATE (BTU/KWH) 3/	27,540	10,749	10,168	12,807	13,727	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	113.20	638.90	1,740.50	257.30	115.00	
13	AVERAGE HEAT CONTENT (BTU/LB)	12,602	12,076	12,461	12,196	12,511	
14	AVERAGE SULFUR CONTENT (%)	2.30	2.97	2.06	2.12	1.83	
15	AVERAGE ASH CONTENT (%)	14.58	18.16	12.53	11.92	13.96	
16	AVERAGE MOISTURE CONTENT (%)	3.76	3.67	5.97	5.95	4.44	
17	OIL: CONSUMPTION (1,000 BARRELS)		36.70	23.90	1.33	.88	
18	AVERAGE HEAT CONTENT (BTU/GAL)		138,800	138,800	138,800	138,800	
19	AVERAGE SULFUR CONTENT (%)		.30	.30	.30	.30	
20	GAS: CONSUMPTION (1,000 MCF)						
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)						

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	7	4	4	4	7	
23	- NO. OF WET BOTTOM						
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS						
26	- NO. WITH ELECTROSTATIC PRECIPITATORS				4		
27	- NO. WITH COMBINATION PRECIPITATORS 4/		3	4			
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	[illegible]	[illegible] 30.00	15.00	15.00	[illegible] 25.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	[illegible]	[illegible]	[illegible]	[illegible]	78.00	
31	TESTED, LOW - HIGH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
32	ESTIMATED, LOW - HIGH	[illegible]	[illegible]	[illegible]	[illegible]	78.00	
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	[illegible]	99.30	98.00	94.00	[illegible]	
34	TESTED, LOW - HIGH	[illegible]	98.40	89.60 96.40	94.10	[illegible]	
35	EST., LOW - HIGH	[illegible]	98.30	89.60 96.10	80.90 89.20	[illegible]	
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	10.73	2.29	11.70	3.58	2.92	
40	SULFUR OIDXIDE (1,000 TONS)	5.10	37.23	70.30	10.69	4.02	
41	NITROGEN OXIDES (1,000 TONS)	.85	5.83	15.72	2.32	1.01	
42	STACKS: - TOTAL NO.	4	3	3	1	3	
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	125.00 [illegible]	232.00 [illegible] 125.00	600.00	200.00	[illegible] 76.50 122.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/		114.20	206.60	26.90	12.90	
46	SOLD (1,000 TONS) 11/						
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)					34.65	
51	ELECTROSTATIC PRECIPITATORS ($1,000)				204.76		
52	COMBINATION PRECIPITATORS ($1,000) 4/		1,461.00	2,156.00			
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	21.30	221.00	1,240.10	65.20	69.49	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	37.20	288.70	660.90	108.00	102.70	
56	REVENUES FROM SALE OF ASH ($1,000)						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	37.20	288.70	660.90	108.00	102.70	
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R RSTN 8R JUNIAT	R CONEMAUGH	R W. BR. SUSQ.	R ALLEGHENY	R FKSTN 8 JUNIAT	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	44.30	335.00	730.00	98.30	37.50	
63	AVERAGE RATE OF DISCHARGE (CFS)	43.50	335.00	729.70	98.20	37.50	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	.80	[illegible]	.30	.85 .10	[illegible]	
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG DEC	AUG DEC	AUG DEC	AUG DEC	AUG DEC	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	85.00 51.00	80.00 40.00	87.00 52.00	70.00 46.00	78.00 50.00	
67	AT OUTFALL, SUMMER - WINTER	87.00 52.00	[illegible] 42.00	[illegible] 63.00	70.00 46.00	79.00 51.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
69	- WINTER	2,415.00	1,928.00	1,561.00	7,685.00	1,113.10	
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, D, O 16/						
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	5.06	.27		.71	.20	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	2.96	.06	643.84	.06	9.80	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	2.89					
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		.57	18.93	1.56	.71	
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP					[illegible]	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	S7	S7	S7	ST	SW	
78	RECEIVING WATER BODY					R FKSTN 8 JUNIAT	
79	POND DISCHARGE: 18/ PH, BOILER BLOWDOWN - ASH SETTLING		4.00		6.50		
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		27.00	15.00	5.00		
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING		57,092.25	28,000.00	34,158.00	3,000.00	
82							

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 19/: ONCE THROUGH COOLING (FRESH)		4 258.00		2 80.00		
84	ONCE THROUGH COOLING (SALINE)						
85	COOLING PONDS						
86	COOLING TOWERS						
87	COMBINATION 20/	2 47.80		4 628.00		3 47.50	
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1929 1926	1938 1950	1954 1959	1949 1949	1916 1944	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 21/	16.00	20.00	20.00	20.00	13.70 20.00	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	135.90	468.00	688.40	131.00	69.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	135.90	480.00	697.40	131.00	69.00	

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)		2,089.84	2,228.70	442.90	205.10	
93	COOLING PONDS ($1,000)					42.80	
94	COOLING TOWERS ($1,000)			795.20			

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	8.00	50.30	86.00	17.70	5.40	
96	COST OF CHEMICAL ADDITIVES ($1,000)	.10	1.30	10.20		.30	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	15.60	32.40	66.50	18.00	9.30	
98	COST OF CHEMICAL ADDITIVES ($1,000)	5.10	4.30	118.10	4.80	3.70	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	PENNSYLVANIA ELECTRIC CO.	PENNSYLVANIA POWER & LIGHT CO.	PENNSYLVANIA POWER & LIGHT CO.	PENNSYLVANIA POWER & LIGHT CO	PENNSYLVANIA POWER & LIGHT CO.	1
2							2
3							3
4	NAME OF PLANT	CONEMAUGH	BRUNNER ISLAND	HOLTWOOD	HARTINS CREEK	SUNBURY	4
5	UTILITY-PLANT CODE	379500-1500	380000-0200	380000-0700	380000-0800	380000-1000	5
6	STATE	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	6
7	COUNTY	INDIANA	YORK	LANCASTER	NORTHAMPTON	SNYDER	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	197 05	196 02	02	02	02	8
9	PLANT CAPACITY (MW)	1,684.00	1,558.73	75.00	312.50	409.78	9
10	ANNUAL GENERATION (MWH) 3/	9,696,300	9,533,500	551,600	1,748,000	2,653,100	10
11	PLANT HEAT RATE (BTU/KWH) 3/	9,775	9,862	13,103	11,503	12,068	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	4,035.00	3,774.00	352.80	768.50	1,473.80	12
13	AVERAGE HEAT CONTENT (BTU/LB)	11,437	12,460	10,205	12,639	11,407	13
14	AVERAGE SULFUR CONTENT (%)	2.29	1.99	.70	2.07	1.99	14
15	AVERAGE ASH CONTENT (%)	18.68	13.74	19.20	11.46	15.52	15
16	AVERAGE MOISTURE CONTENT (%)	6.02	5.43	14.06	5.81	10.38	16
17	OIL: CONSUMPTION (1,000 BARRELS)	93.08	152.90	.46	8.70	11.49	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	138,800	137,972	137,266	137,423	137,143	18
19	AVERAGE SULFUR CONTENT (%)	.30	.16	.27	.18	.14	19
20	GAS: CONSUMPTION (1,000 MCF)						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)						21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2	3	4	2	6	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS					4	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	2	3	3	2		26
27	- NO. WITH COMBINATION PRECIPITATORS 4/			1		6	27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	20.00	20.00	20.00 40.00	20.00	20.00 40.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					99.00	30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	99.50	99.50	95.00	99.50	96.00	33
34	TESTED, LOW - HIGH	99.60					34
35	EST., LOW - HIGH	96.60	99.50	97.00	99.00	99.60	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	32.71	5.69	1.73	1.15	8.60	39
40	SULFUR DIOXIDE (1,000 TONS)	181.20	147.28	4.84	31.23	57.49	40
41	NITROGEN OXIDES (1,000 TONS)	36.52	34.30	3.19	7.11	13.29	41
42	STACKS: - TOTAL NO.	2	2	4	1	4	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	1,000.00	600.00	200.00	250.00	300.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	727.40	512.70	62.00	87.70	227.50	45
46	SOLD (1,000 TONS) 11/	30.70			3.40		46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)					12,000.00	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	3,374.00	3,578.00	216.00	2,200.00		51
52	COMBINATION PRECIPITATORS ($1,000) 4/			1,035.00		3,578.30	52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	4,274.00	1,286.00	107.00	232.00	337.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	2,175.70	652.00	45.00	97.80	276.00	55
56	REVENUES FROM SALE OF ASH ($1,000)	64.60			1.00		56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	2,267.70	652.00	45.00	97.80	276.00	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	64.60			1.00		60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R CONEMAUGH	R SUSQUEHANNA	R SUSQUEHANNA	R DELAWARE	R SUSQUEHANNA	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	38.20	1,080.00	114.00	251.00	448.50	62
63	AVERAGE RATE OF DISCHARGE (CFS)	11.20	1,066.00	114.00	243.30	443.50	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	27.00	14.00	.98	7.70	5.00	64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG OEC	AUG JAN	AUG JAN	AUG JAN	AUG JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	87.00 48.00	45.00	45.00	38.00	53.00	66
67	AT OUTFALL, SUMMER - WINTER	48.00	102.00	74.00	62.00	76.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						68
69	- WINTER	1,928.00	51,300.00	51,300.00	12,750.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O 16/	C	C	C	C		70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.02	.21	.62	1.05	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	323.01	344.73			20.00	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP				.25		73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		98.00	.92	.25		74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		17.00	3.00 .12		8.00	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	OT		OT	OT	PS	77
78	RECEIVING WATER BODY	R CONEMAUGH		R SUSQUEHANNA			78
79	POND DISCHARGE 18/: PH, BOILER BLOWDOWN - ASH SETTLING	7.00			10.00		79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	50.00			200.00		80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING	367,164.00	175,000.00	25,000.00	63,000.00	88,300.00	82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 19/: ONCE THROUGH COOLING (FRESH)		3 1,558.73	3 105.00	2 312.50	4 409.78	83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING POND(S)						85
86	COOLING TOWER(S)	2 1,640.00					86
87	COMBINATION 20/						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1969 1970	1961 1969	1925 1954	1954 1956	1949 1953	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 21/	27.30	29.00	19.00	27.00	23.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,250.00	1,159.00	224.00	266.00	458.40	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		1,159.00	224.00	266.00	458.40	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)		1,755.00	489.00	1,247.00	2,600.00	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)	5,896.00					94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	177.20	36.40	29.10	16.80	31.80	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	149.30	3.30	.50		1.40	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	135.00	78.30	25.30	1.60	3.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	101.30	43.50	.90	8.50	20.80	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	PENNSYLVANIA POWER & LIGHT CO.	PENNSYLVANIA POWER CO.	PERU ELEC & PWR DEPT	PHILADELPHIA ELECTRIC CO.	PHILADELPHIA ELECTRIC CO.	1
2							2
3							3
4	NAME OF PLANT	MONTOUR	NEW CASTLE	PERU	BARBADOES	CHESTER	4
5	UTILITY-PLANT CODE	380000-1300	380500-0100	382000-0100	384000-0100	384000-0200	5
6	STATE	PENNSYLVANIA	PENNSYLVANIA	INDIANA	PENNSYLVANIA	PENNSYLVANIA	6
7	COUNTY	MONTOUR	LAWRENCE	MIAMI	MONTGOMERY	DELAWARE	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	193 02	176 05	066 05	043 02	043 02	8
9	PLANT CAPACITY (MW)	1,641.70	425.80	37.00	132.00	223.00	9
10	ANNUAL GENERATION (MWH) 3/	7,531,800	2,235,500	101,100	586,100	688,400	10
11	PLANT HEAT RATE (BTU/KWH) 3/	9,743	10,959	14,061	12,441	13,479	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	2,917.10	982.00	61.80			12
13	AVERAGE HEAT CONTENT (BTU/LB)	12,565	12,462	11,501			13
14	AVERAGE SULFUR CONTENT (%)	1.79	3.24	2.87			14
15	AVERAGE ASH CONTENT (%)	13.17	10.70	9.96			15
16	AVERAGE MOISTURE CONTENT (%)	5.91	5.98	11.69			16
17	OIL: CONSUMPTION (1,000 BARRELS)	13.19	5.68		1,192.00	1,528.00	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	136,891	137,000		145,657	144,556	18
19	AVERAGE SULFUR CONTENT (%)	.14	.01		.38	.44	19
20	GAS: CONSUMPTION (1,000 MCF)						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)						21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2	5	3	2	8	22
23	- NO. OF WET BOTTOM	2					23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS			3			25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	2	5				26
27	- NO. WITH COMBINATION PRECIPITATORS 4/				2	2	27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	20.00	20.00	25.00	20.00	20.00 36.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH			80.80 83.50			30
31	TESTED, LOW - HIGH			75.00 83.50			31
32	ESTIMATED, LOW - HIGH			70.00 75.00			32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	99.50	98.00		64.00	98.00	33
34	TESTED, LOW - HIGH				94.00	47.10 60.50	34
35	EST., LOW - HIGH	99.50	98.00		50.00		35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.67	2.41	1.36	.10	.12	39
40	SULFUR OIOXIOE (1,000 TONS)	54.96	62.34	3.49	1.52	2.26	40
41	NITROGEN OXIOES (1,000 TONS)	23.65	8.85	.56	2.63	3.37	41
42	STACKS: - TOTAL NO.	2	4	2	2	5	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	600.00	232.00	175.00	330.00	195.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/					1.00	44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	406.10	102.50	4.70			45
46	SOLD (1,000 TONS) 11/						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	4,725.00	1,511.00			1,818.00	51
52	COMBINATION PRECIPITATORS ($1,000) 4/				500.00		52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	2,485.00	156.00		244.00	88.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	241.50	137.00		103.00	38.80	55
56	REVENUES FROM SALE OF ASH ($1,000)						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	253.00	137.00		103.00	38.80	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R SUSQUEHANNA	R BEAVER	R WABASH	R SCHUYLKILL	R DELAWARE	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	31.00	482.00	2,400.00	216.00	299.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	20.00	482.00	2,400.00	216.00	299.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	11.00	5.15	20.64	1.84	2.57	64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG JAN	JUN JAN	JUL JAN	AUG JAN	AUG JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	73.00 37.00	74.00 41.00	86.00 40.00	82.00 41.00	83.00 43.00	66
67	AT OUTFALL, SUMMER - WINTER	74.00 33.00	56.00	100.00 52.00	100.00 60.00	90.00 51.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	50.00	3,147.00	2,200.00	5,380.00	252,000.00	68
69	- WINTER					252,000.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OT 16/	H			H	H	70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS) 1, COOLING WATER - BOILER MAKEUP	1.43	.30		.30	.80	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	750.00	.44		54.50	.20	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	20.00					74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	31.00			37.00	60.00	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES		YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 16/	OT	ST		PS	PS	77
78	RECEIVING WATER BODY	C CHILLISQUAQUE					78
79	POND DISCHARGE 16/: PH, BOILER BLOWDOWN - ASH SETTLING		6.50		10.10 9.60	6.10	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		100.00		13.00 31.00	232.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN				9,600.00	414.99	81
82	- ASH SETTLING	60,000.00	61,500.00				82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 17/: ONCE THROUGH COOLING (FRESH)		5 425.08	3 37.00	2 132.00	4 223.00	83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING PONDS						85
86	COOLING TOWERS	2 1,500.00					86
87	COMBINATION 18/						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1971 1973	1939 1964	1933 1958	1949	1918 1942	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F). SMALLEST - LARGEST 19/	27.60	12.50 16.70	12.00	23.00	11.00 12.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,008.00	629.00	20.26	356.00	796.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		629.00	5,735.00	356.00	1,254.00	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)		1,308.00			730.00	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)	7,687.00					94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	26.00	15.00		38.00	30.60	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	7.30	16.00		3.00	8.20	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	86.00	96.00		41.00	7.20	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	134.40	4.00	5.63	47.00	11.40	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	PHILADELPHIA ELECTRIC CO.	PHILADELPHIA ELECTRIC CO.	PHILADELPHIA ELECTRIC CO.	PHILADELPHIA ELECTRIC CO.	PHILADELPHIA ELECTRIC CO.	1
2							2
3							3
4	NAME OF PLANT	CROMBY	DELAWARE	EDDYSTONE	PEACH BOTTOM	RICHMOND	4
5	UTILITY-PLANT CODE	384000-0300	384000-0400	384000-0500	384000-0700	384000-0900	5
6	STATE	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	6
7	COUNTY	CHESTER	PHILADELPHIA	DELAWARE	YORK	PHILADELPHIA	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	045 02	045 02	045 02	196 02	045 02	8
9	PLANT CAPACITY (MW)	417.50	405.50	707.20	46.00	474.75	9
10	ANNUAL GENERATION (MWH)[3]	2,268,000	1,739,000	4,764,700	176,600	1,288,200	10
11	PLANT HEAT RATE (BTU/KWH)[3]	9,928	10,066	9,043	10,754	13,742	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	396.00		1,637.00			12
13	AVERAGE HEAT CONTENT (BTU/LB)	13,063		13,026			13
14	AVERAGE SULFUR CONTENT (%)	2.44		2.37			14
15	AVERAGE ASH CONTENT (%)	8.91		8.62			15
16	AVERAGE MOISTURE CONTENT (%)	4.82		5.26			16
17	OIL: CONSUMPTION (1,000 BARRELS)	2,010.00	3,017.00	72.00		3,007.00	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	144,142	138,114	142,487		140,139	18
19	AVERAGE SULFUR CONTENT (%)	.37	.47	.37		.44	19
20	GAS: CONSUMPTION (1,000 MCF)						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)						21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	2	3	2		5	22
23	- NO. OF WET BOTTOM					2	23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS					4	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS					4	26
27	- NO. WITH COMBINATION PRECIPITATORS[4]	2	2	2			27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	15.00	15.00 20.00	15.00		20.00 25.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					65.00 80.00	30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	98.00	96.00	98.50		80.00	33
34	TESTED, LOW - HIGH		96.00	99.00 99.40			34
35	EST., LOW - HIGH	50.00 99.00	50.00	90.00		50.00	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.47	.26	5.84		.31	39
40	SULFUR OIOXIDE (1,000 TONS)	21.43	4.76	76.13		4.44	40
41	NITROGEN OXIDES (1,000 TONS)	8.00	6.65	14.89		6.63	41
42	STACKS: - TOTAL NO.	2	5	2		4	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	300.00	200.00	248.00		173.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	.20	.10			.60	44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	39.30		149.40			45
46	SOLD (1,000 TONS)[11]			35.20			46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)					496.00	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)					539.00	51
52	COMBINATION PRECIPITATORS ($1,000)[4]	900.00	650.00	1,985.00			52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	368.00	173.00	236.00		119.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	281.70	66.90	597.20		39.20	55
56	REVENUES FROM SALE OF ASH ($1,000)			10.00			56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	281.70	66.90	597.20		39.20	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)			10.00			60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R SCHUYLKILL	R DELAWARE	R DELAWARE	R SUSQUEHANNA	R DELAWARE	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	513.00	368.00	936.00	62.00	527.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	513.00	368.00	936.00	62.00	527.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	4.41	9.14	8.05	.53	4.53	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG JAN		AUG JAN	AUG JAN	AUG JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	90.00 40.00	83.00 40.00	85.00 47.00	84.00 41.00	86.00 47.00	66
67	AT OUTFALL, SUMMER - WINTER	106.00 55.00	93.00 56.00	97.00 57.00	96.00 61.00	97.00 61.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	4,750.00	185,000.00	207,000.00	49,000.00	96,000.00	68
69	- WINTER	4,900.00	105,000.00	207,000.00	49,000.00	96,000.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.28	3.15		.25	1.00	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	327.06	289.38	667.91	14.63	.05	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP				4.00	10.00	74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	90.00	123.00	257.00	35.00	396.00	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[17]	OT	PS	PS	OT	PS	77
78	RECEIVING WATER BODY	R SCHUYLKILL			R SUSQUEHANNA		78
79	PONO DISCHARGE[18]: PH, BOILER BLOWDOWN - ASH SETTLING	7.70	7.00	6.90		6.80	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	54.00	70.00	52.00		35.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	7,730.00					81
82	- ASH SETTLING			381,000.00			82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING[19]: ONCE THROUGH COOLING (FRESH)	2 388.00	6 379.75	2 650.00	1 40.00		83
84	ONCE THROUGH COOLING (SALINE)					4 446.00	84
85	COOLING PONDS(S)						85
86	COOLING TOWER(S)						86
87	COMBINATION[20]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1954	1924 1953	1960	1966	1913 1914	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[21]	14.00 17.00	11.00 18.00	12.00 14.00	11.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	490.00	424.00	890.00	92.00	872.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	490.00	423.00	890.00	104.00	872.00	91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)						92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)						94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	101.50	68.80	32.90	1.60	61.40	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	11.40	18.60	39.20	5.50	32.80	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	68.40	64.00	234.00	2.00	132.20	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	42.90	50.50	115.70	19.90	11.00	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1 NAME OF UTILITY	PHILADELPHIA ELECTRIC CO.	PHILADELPHIA ELECTRIC CO.	PIQUA MUNICIPAL POWER PLANT	PLAINS ELECTRIC GEN COOP, INC.	PORTLAND GENERAL ELECTRIC	
4 NAME OF PLANT	SCHUYLKILL	SOUTHWARK	PIQUA	ALGADONES	STATION L	
5 UTILITY-PLANT CODE	384000-1000	384000-1100	38T500-0100	389000-0100	393000-0200	
6 STATE	PENNSYLVANIA	PENNSYLVANIA	OHIO	NEW MEXICO	OREGON	
7 COUNTY	PHILADELPHIA	PHILADELPHIA	MIAMI	SANDOVAL	MULTNOMAH	
8 AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	049 02	049 02	038 05	138 13	199 1T	
9 PLANT CAPACITY (MW)	325.40	370.00	T3.00	49.50	T2.30	
10 ANNUAL GENERATION (MWH) 3/	1,564,800	1,416,900	1A3,500	242,200	39,222	
11 PLANT HEAT RATE (BTU/KWH) 3/	10,003	12,93T	19,312	13,592	14,88A	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)			122.60			
13 AVERAGE HEAT CONTENT (BTU/LB)			12,008			
14 AVERAGE SULFUR CONTENT (%)			2.85			
15 AVERAGE ASH CONTENT (%)			11.59			
16 AVERAGE MOISTURE CONTENT (%)			2.70			
17 OIL: CONSUMPTION (1,000 BARRELS)	3,836.00	3,009.00	3T.30	4.41		
18 AVERAGE HEAT CONTENT (BTU/GAL)	145,258	144,423	13T,000	150,000		
19 AVERAGE SULFUR CONTENT (%)	.45	.46	.25	.20		
20 GAS: CONSUMPTION (1,000 MCF)				3,547.58	564.12	
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)				934	1,035	

PLANT EQUIPMENT DATA

22 BOILERS: - TOTAL NO.	6	4	6	3	1	
23 - NO. OF WET BOTTOM						
24 - NO. WITH FLY ASH REINJECTION						
25 - NO. WITH MECHANICAL PRECIPITATORS	5		3			
26 - NO. WITH ELECTROSTATIC PRECIPITATORS	2					
27 - NO. WITH COMBINATION PRECIPITATORS 4/		4				
28 - NO. WITH DESULFURIZATION SYSTEMS						
29 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	15.00	26.00	38.00	6.00	40.00	
30 MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	86.00		92.00			
31 TESTED, LOW - HIGH						
32 ESTIMATED, LOW - HIGH	80.00		90.00			
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	90.00	99.30				
34 TESTED, LOW - HIGH		43.50				
35 EST., LOW - HIGH		43.50				
36 DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37 TESTED, LOW - HIGH						
38 ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.17	.33	3.04			
40 SULFUR DIOXIDE (1,000 TONS)	5.T9	4.64	6.49	.T0	.11	
41 NITROGEN OXIDES (1,000 TONS)	8.46	6.63	.87			
42 STACKS: - TOTAL NO.	6	4	5	3	4	
43 - HEIGHT (FEET), LOWEST - HIGHEST 8/	275.00	264.00	12T.00	102.00	60.00	
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	.10	.30				
45 TOTAL ASH: COLLECTED (1,000 TONS) 10/	.50		14.30			
46 SOLD (1,000 TONS) 11/						
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
49 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	410.00		35.00			
51 ELECTROSTATIC PRECIPITATORS ($1,000)	250.50					
52 COMBINATION PRECIPITATORS ($1,000) 4/		1,5T5.00				
53 DESULFURIZATION SYSTEMS ($1,000)				130.80	T.50	
54 STACKS ($1,000)	542.00	1T6.00				
55 ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	120.00	160.10	20.00			
56 REVENUES FROM SALE OF ASH ($1,000)						
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	120.00	160.10	20.00			
60 TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R SCHUYLKILL	R DELAWARE	R MIAMI	W	R WILLAMETTE	
62 AVERAGE RATE OF WITHDRAWAL (CFS)	456.00	5T4.00	90.00	1.00		
63 AVERAGE RATE OF DISCHARGE (CFS)	456.00	5T4.00	90.00			
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	3.92			.95		
65 PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG	JAN	AUG	JAN	AUG	DEC
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	95.0	42.00	44.00	32.00		50.00
67 AT OUTFALL, SUMMER - WINTER		T7.00	59.00	50.00		65.00
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						
69 - WINTER	5,610.00		120,000.00	350.00		32,500.00
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OTH 16/	N				C	
71 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	7.T0	.30	1.25	.33		.15
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		156.81		.46		.08
73 LIME (TONS), COOLING WATER - BOILER MAKEUP				202.45		
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP				17.65		
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP			.T5	.29		
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES		YES	
77 SEWAGE DISPOSAL: METHOD PS, ST, SW, OTH 17/	PS	PS	PS	ST	ST	
78 RECEIVING WATER BODY				O GRAIN FIELD		
79 POND DISCHARGE: 18/ PH, BOILER BLOWDOWN - ASH SETTLING	10.50	T.00				
80 SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		1,000.00				
81 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
82 - ASH SETTLING	1,952.00					

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (MW) USING 19/: ONCE THROUGH COOLING (FRESH)	4 275.40	2 3T4.00	6 52.00		1 35.00	
84 ONCE THROUGH COOLING (SALINE)						
85 COOLING PONDS)						
86 COOLING TOWERS)				3		
87 COMBINATIONS 20/						
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1919 1958	1947 1948	1933 1961	1954 1958	1938	
89 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 21/	15.00	13.00	9.50 18.00	24.00	80.00	
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	507.00	620.00	160.00	80.00	98.50	
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	533.00	620.00	160.00			

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTEMS ($1,000)	1,055.00				.10.00	
93 COOLING PONDS ($1,000)						
94 COOLING TOWERS ($1,000)				130.00		

ANNUAL COOLING WATER EXPENSES

95 OPERATION AND MAINTENANCE EXPENSES ($1,000)	59.60	12T.00	5.00	T.00		
96 COST OF CHEMICAL ADDITIVES ($1,000)	12.60	11.40	3.00	23.00		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION AND MAINTENANCE EXPENSES ($1,000)	440.20	134.20	6.00	80.00	5.00	
98 COST OF CHEMICAL ADDITIVES ($1,000)	788.30	54.50	4.00	1.00	.50	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	POTOMAC EDISON CO. (VA.)	POTOMAC ELECTRIC POWER CO.	POTOMAC ELECTRIC POWER CO.	POTOMAC ELECTRIC POWER CO.	POTOMAC ELECTRIC POWER CO.	
NAME OF PLANT	RIVERTON	BENNING	BUZZARD POINT	CHALK POINT	DICKERSON	
UTILITY-PLANT CODE	393500-0300	394500-0100	394500-0200	394500-0300	394500-0400	
STATE	VIRGINIA	D. C.	D. C.	MARYLAND	MARYLAND	
COUNTY	WARREN			PRINCE GEORGES	MONTGOMERY	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	226 02	047 02	047 02	047 02	047 02	
PLANT CAPACITY (MW)	34.50	718.35	270.00	730.00	570.00	
ANNUAL GENERATION (MWH)[3]	55,900	2,633,000	543,800	2,589,200	3,554,400	
PLANT HEAT RATE (BTU/KWH)[3]	14,077	12,005	13,834	10,091	9,397	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION 11,000 TONS)	18.70	259.88		1,039.60	1,282.44	
AVERAGE HEAT CONTENT (BTU/LB)	11,625	13,106		12,341	12,209	
AVERAGE SULFUR CONTENT (%)	3.15	.90	.	1.70	1.64	
AVERAGE ASH CONTENT (%)	21.35	9.01		12.16	12.86	
AVERAGE MOISTURE CONTENT 1%)	2.57	5.12		6.59	6.97	
OIL: CONSUMPTION (1,000 BARRELS)	60.45	4,109.54	1,196.56	81.10	358.33	
AVERAGE HEAT CONTENT (BTU/GAL)	138,698	146,283	146,480	138,328	138,228	
AVERAGE SULFUR CONTENT (%)	.01	.89	.89	.05	.42	
GAS: CONSUMPTION (1,000 MCF)						
AVERAGE HEAT CONTENT (BTU/CU.FT.)						

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	1	20	6	2	3	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS	1	8	2			
- NO. WITH ELECTROSTATIC PRECIPITATORS		1		2	3	
- NO. WITH COMBINATION PRECIPITATORS[4]		1	6			
- NO. WITH DESULFURIZATION SYSTENS						
- EXCESS AIR USED 1%), LOWEST BOILER - HIGHEST BOILER[5]						
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	20.00	3.00 25.00	20.00	18.00	20.00	
TESTED, LOW - HIGH	85.00	93.00	86.40			
ESTIMATED, LOW - HIGH	79.00					
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH		93.00				
TESTED, LOW - HIGH		96.00 98.40	99.30	97.50	97.50	
EST., LOW - HIGH		95.60 96.10	94.70 99.20	94.90 96.60	90.90 95.90	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH		95.60 96.10	94.70 99.20	94.90 96.60		
TESTED, LOW - HIGH					90.00	
ESTIMATED, LOW - HIGH					90.00	

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.55	1.33	.01	4.58	7.59	
SULFUR DIOXIDE (1,000 TONS)	1.16	16.86	3.57	34.65	41.73	
NITROGEN OXIDES 11,000 TONS)	.27	11.01	2.64	9.54	11.63	
STACKS: - TOTAL NO.	1	10	3	2	2	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	109.00	175.00 257.80	178.25	400.00	400.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]	3.29	21.70	.05	123.10	156.40	
SOLD 11,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD 11,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	207.00	102.00	168.00			
ELECTROSTATIC PRECIPITATORS ($1,000)		116.00		907.00	1,309.00	
COMBINATION PRECIPITATORS ($1,000)[4]		271.00	1,654.00			
DESULFURIZATION SYSTEMS ($1,000)					6,307.00	
STACKS ($1,000)	27.00	459.00	61.00	605.00	531.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	1.80	146.18	24.30	1,034.80	1,252.30	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)					5.20	
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES 1$1,000)[13]	1.80	146.18	24.30	1,034.80	1,257.50	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES A, L, R, C, W, M & O EXPL. IN FOOTNOTES)	R SHENANDOAH	R ANACOSTIA	R ANACOSTIA	R PATUXENT	R POTOMAC	
AVERAGE RATE OF WITHDRAWAL (CFS)	18.20	288.00	220.00	777.00	579.00	
AVERAGE RATE OF DISCHARGE (CFS)	18.20	280.00	220.00	777.00	579.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.16 .03	8.00	1.89	6.68	4.98	
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG DEC	JUL JAN	JUL JAN	JUL JAN	JUL JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	81.00 47.00	87.00 47.00	85.00 43.00	89.00 48.00	85.00 52.00	
AT OUTFALL, SUMMER - WINTER	97.00 63.00	56.00	53.00	99.00 60.00	100.00 74.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	964.00			TIDEWATER		
- WINTER	2,050.00			TIDEWATER		
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]	H	C	C		C	
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.05	.34	.23		.28	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	4.00	153.50 104.00	29.58	202.44	25.64	
LIME (TONS), COOLING WATER - BOILER MAKEUP				18.90	1.00	
ALUM (TONS), COOLING WATER - BOILER MAKEUP	2.50	137.15		43.15	50.67	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.65	38.00	18.20	611.50	32.10	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES YES	YES	YES	YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	PS	PS	OT	OT	
RECEIVING WATER BODY	R SHENANDOAH		R POTOMAC	R PATUXENT	R POTOMAC	
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING						
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING	32,400.00					

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	1 40.00	11 328.00	6 305.00		3 586.50	
ONCE THROUGH COOLING (SALINE)				2 730.00		
COOLING PONDS)						
COOLING TOWERIS)		2 579.60				
COMBINATION[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEN	1949	1917 1972	1933 1945	1964	1959 1962	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	16.00	10.00 24.00	10.00	11.00	16.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	66.00	1,434.00	880.00	1,114.00	633.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTENS (CFS)	67.00	1,144.00	880.00	1,114.00	633.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTENS 1$1,000)	238.00	990.00	687.00	4,665.00	2,510.00	
COOLING PONDS ($1,000)						
COOLING TOWERS 1$1,000)		920.00				

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES 1$1,000)	13.80	95.90	32.50	293.50	124.10	
COST OF CHEMICAL ADDITIVES ($1,000)	.30	95.90	32.50			

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	15.30	23.20	15.10	153.30	49.90	
COST OF CHEMICAL ADDITIVES ($1,000)	2.10	23.20	15.10			

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	POTOMAC ELECTRIC POWER CO.	POTOMAC ELECTRIC POWER CO.	PUBLIC SERVICE CO. OF NEW MEXICO	PUBLIC SERVICE CO. OF NEW MEXICO	PUBLIC SERVICE CO. OF NEW MEXICO	
NAME OF PLANT	POTOMAC RIVER	MORGANTOWN	PERSON	PRAGER	REEVES	
UTILITY-PLANT CODE	394500-0500	394500-0600	403500-0100	403500-0200	403500-0300	
STATE	VIRGINIA	MARYLAND	NEW MEXICO	NEW MEXICO	NEW MEXICO	
COUNTY	CITY OF ALEX.	CHARLES	BERNALILLO	BERNALILLO	BERNALILLO	
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	047 02	116 02	152 13	152 13	152 13	
PLANT CAPACITY (MW)	514.00	1,148.00	125.00	35.00	175.00	
ANNUAL GENERATION (MWH) 3/	2,240,000	6,445,800	488,600	11,800	1,212,700	
PLANT HEAT RATE (BTU/KWH) 3/	10,063	9,260	12,759	19,179	11,272	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	885.00	550.40				
AVERAGE HEAT CONTENT (BTU/LB)	12,683	12,693				
AVERAGE SULFUR CONTENT (%)	.84	1.78				
AVERAGE ASH CONTENT (%)	10.69	13.34				
AVERAGE MOISTURE CONTENT (%)	8.15	3.09				
OIL: CONSUMPTION (1,000 BARRELS)	6.00	7,249.30	98.00		204.70	
AVERAGE HEAT CONTENT (BTU/GAL)	138,289	148,705	142,854		151,685	
AVERAGE SULFUR CONTENT (%)	.10	1.71	.96		.90	
GAS: CONSUMPTION (1,000 MCF)			5,276.10	212.90	11,568.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)			1,070	1,063	1,069	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	5	2	4	5	3	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION		1				
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS		2				
- NO. WITH COMBINATION PRECIPITATORS 4/	5					
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	18.00	18.00	7.00 15.00	15.00 20.00	7.00 10.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	99.30 99.70	99.50				
TESTED, LOW - HIGH	87.80 98.10	98.84				
EST., LOW - HIGH		96.50				
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	4.88	6.58	.02		.03	
SULFUR DIOXIDE (1,000 TONS)	14.57	60.79	.31		.62	
NITROGEN OXIDES (1,000 TONS)	8.00	20.94	1.24	.04	2.71	
STACKS: - TOTAL NO.	5	2	4	5	3	
- HEIGHT (FEET), LOWEST - HIGHEST 8/	161.00	700.00	66.00 68.50	49.00 67.00	118.30	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						
TOTAL ASH: COLLECTED (1,000 TONS) 10/	92.00	73.40				
SOLD (1,000 TONS) 11/						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)		3,448.00				
COMBINATION PRECIPITATORS ($1,000) 4/	1,669.00					
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	271.00	3,123.00		12.80	35.80	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	661.00	566.20				
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	661.00	566.20				
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R POTOMAC	R POTOMAC	W	W	W	
AVERAGE RATE OF WITHDRAWAL (CFS)	444.00	2,045.00	3.06	.06	3.80	
AVERAGE RATE OF DISCHARGE (CFS)	444.00	2,045.00	1.08	.02	.51	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	3.82	17.39	1.98	.04	3.29	
PEAK LOAD MONTH : SUMMER - WINTER 15/	JUL JAN	JUL JAN				
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	90.00 56.00	81.00 41.10				
AT OUTFALL, SUMMER - WINTER	105.00 72.00	87.00 51.00				
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	TIDEWATER	TIDE WATER				
- WINTER	TIDEWATER	TIDE WATER				
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O, 16/			C		C	
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.08		4.59 .64		2.98 .56	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	25.82	35.70	7.68		.50	
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP	23.09					
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	66.00	275.00	8.10		12.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES YES	YES	YES		YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	PS	OT	ST	ST/PS	ST	
- RECEIVING WATER BODY	R POTOMAC	R POTOMAC				
POND DISCHARGE 19/: PH, BOILER BLOWDOWN - ASH SETTLING						
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	5 514.00					
ONCE THROUGH COOLING (SALINE)		2 1,252.00				
COOLING PONDS						
COOLING TOWER(S)			4 125.00	5 35.00	3 175.00	
COMBINATION 21/						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1949 1957	1970 1971	1951 1957	1938 1948	1959 1962	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	14.00	10.00	15.00	14.00 15.00	16.30	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	696.40	2,250.00	222.40	88.80	265.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	697.00	2,250.00				

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	1,611.00	10,412.00				
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)			471.50	135.00	790.00	

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	104.00	233.40				
COST OF CHEMICAL ADDITIVES ($1,000)			4.10		9.10	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	22.00	248.80				
COST OF CHEMICAL ADDITIVES ($1,000)			5.40		2.90	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	PUBLIC SERVICE CO. OF NEW MEXICO	PUBLIC SERVICE CO. OF INDIANA INC.	PUBLIC SERVICE CO. OF INDIANA INC.	PUBLIC SERVICE CO. OF INDIANA INC.	PUBLIC SERVICE CO. OF INDIANA INC.
NAME OF PLANT	SAN JUAN	ORESSER	EDWARDSPORT	NOBLESVILLE	GALLAGHER
UTILITY-PLANT CODE	403500-0350	404500-0100	404500-0200	404500-0500	404500-0600
STATE	NEW MEXICO	INDIANA	INDIANA	INDIANA	INDIANA
COUNTY	SAN JUAN	VIGO	KNOX	HAMILTON	FLOYD
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	014 14	084 05	086 05	082 05	078 05
PLANT CAPACITY (MW)	330.00	150.00	144.25	100.00	600.00
ANNUAL GENERATION (MWH)[3]	298,400	413,900	321,300	183,200	3,126,700
PLANT HEAT RATE (BTU/KWH)[3]	11,055	14,088	12,728	13,014	10,376

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	98.50	279.00	200.00	110.00	1,455.00
AVERAGE HEAT CONTENT (BTU/LB)	8,838	10,433	10,231	10,742	11,149
AVERAGE SULFUR CONTENT (%)	.80	4.16	2.79	2.74	3.40
AVERAGE ASH CONTENT (%)	21.20	11.74	12.56	9.87	10.73
AVERAGE MOISTURE CONTENT (%)	15.80	12.61	13.87	13.80	12.39
OIL: CONSUMPTION (1,000 BARRELS)	1.90	19.20	51.00	3.40	31.50
AVERAGE HEAT CONTENT (BTU/GAL)	135,718	137,000	137,000	137,000	137,000
AVERAGE SULFUR CONTENT (%)	.10	.31	.31	.31	.31
GAS: CONSUMPTION (1,000 MCF)					
AVERAGE HEAT CONTENT (BTU/CU.FT.)					

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	1	8	4	3	4
- NO. OF WET BOTTOM		T	1		
- NO. WITH FLY ASH REINJECTION					
- NO. WITH MECHANICAL PRECIPITATORS			1	3	
- NO. WITH ELECTROSTATIC PRECIPITATORS	1		3	3	4
- NO. WITH COMBINATION PRECIPITATORS[4]					
- NO. WITH DESULFURIZATION SYSTEMS					
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]					
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	18.00	20.00	23.00	25.00	20.00
TESTED, LOW - HIGH			84.00	85.00	
ESTIMATED, LOW - HIGH					
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	99.50		98.60	98.00	99.00
TESTED, LOW - HIGH			98.80	98.00 98.60	99.00
EST., LOW - HIGH	99.40		98.80	98.00	99.00
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH					
TESTED, LOW - HIGH					
ESTIMATED, LOW - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.11	21.29	.26	.18	1.33
SULFUR OIOXIDE (1,000 TONS)	1.55	22.77	10.99	5.91	96.99
NITROGEN OXIDES (1,000 TONS)	.89	4.23	1.91	1.00	13.16
STACKS: - TOTAL NO.	1	4	4	3	2
- HEIGHT (FEET), LOWEST - HIGHEST[8]	400.00	303.00	143.00	225.00	550.00
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]					
TOTAL ASH: COLLECTED (1,000 TONS)[10]	21.60	32.80	15.20	10.50	147.00
SOLD (1,000 TONS)[11]					
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]					
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			40.00	90.00	
ELECTROSTATIC PRECIPITATORS ($1,000)	4,185.00				5,972.00
COMBINATION PRECIPITATORS ($1,000)[4]					
DESULFURIZATION SYSTEMS ($1,000)					
STACKS ($1,000)					
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	755.30	164.00	50.00	111.00	715.00
REVENUES FROM SALE OF ASH ($1,000)	11.50	37.00	56.00	34.00	177.00
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)					
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)					
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	11.50	37.00	56.00	34.00	177.00
TOTAL BYPRODUCT SALES REVENUES ($1,000)					

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O RESERVOIR	R WABASH	R WHITE	R WHITE	R OHIO
AVERAGE RATE OF WITHDRAWAL (CFS)	5.30	140.80	101.50	182.20	
AVERAGE RATE OF DISCHARGE (CFS)		140.80	101.42	182.10	516.90
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	5.30	1.28	.87 .08	1.57 .10	.10
PEAK LOAD MONTH : SUMMER - WINTER[15]	OEC	AUG OEC	AUG OEC	AUG OEC	AUG OEC
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	50.00	81.00 40.00	80.00 42.00	80.00 45.00	80.00 47.00
AT OUTFALL, SUMMER - WINTER		90.00 60.00	94.00 61.00	90.00 60.00	94.00 61.00
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		3,920.00	6,079.00	795.00	42,000.00
- WINTER		13,200.00	8,884.00	1,466.00	177,500.00
FREQUENCY OF TEMPERATURE MONITORING: C, M, O, ON[15]	C				
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.36 .12	1.25	.30 .15		.30
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	8.82	3.94	41.35	5.93	172.41
LIME (TONS), COOLING WATER - BOILER MAKEUP	1.99	26.00	107.30 2.20	10.00	
ALUM (TONS), COOLING WATER - BOILER MAKEUP	.73	52.50	11.50 2.05		
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	2.00 .03	1.00 1.43	11.28 2.00	7.00	58.74 7.26
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[16]	YES	YES	YES	YES	YES
SEWAGE DISPOSAL: METHOD (S, ST, SW, OT)[15]	OT	ST	SW	ST	ST
RECEIVING WATER BODY	O BASIN	R WABASH	R WHITE		
POND DISCHARGE[17]: PH, BOILER BLOWDOWN - ASH SETTLING	8.00	10.50	11.00	10.50	9.00 9.00
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	10.00	5.00	5.00	5.00	5.00 50.00
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN		303.00	450.00	19.30	2,270.00
- ASH SETTLING			45,000.00		53,000.00

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[18]: ONCE THROUGH COOLING (FRESH)		6 221.00	3 130.00	2 100.00	4 600.00
ONCE THROUGH COOLING (SALINE)					
COOLING PONDS(S)					
COOLING TOWER(S)	1 330.00				
COMBINATIONS[19]					
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1973	1924 1945	1943 1951	1950	1958 1961
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[20]		10.00 12.10	12.80 15.80	15.50	18.70
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	20.00	12.10	15.80	15.50	18.70
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	346.00	588.00	290.20	174.80	676.00
		588.00	290.20	174.80	676.00

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)		243.00	511.00	532.00	2,462.00
COOLING PONDS ($1,000)					
COOLING TOWERS ($1,000)	4,909.60			191.00	

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	9.80	62.00	43.00	12.00	120.00
COST OF CHEMICAL ADDITIVES ($1,000)	1.50	.80	4.00	3.00	10.00

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	4.50	77.00	98.00	43.00	244.00
COST OF CHEMICAL ADDITIVES ($1,000)	2.40	15.00	14.00	5.00	27.00

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	1	PUBLIC SERVICE CO. OF INDIANA INC.	PUBLIC SERVICE CO. OF INDIANA INC.	PUBLIC SERVICE CO OF NEW HAMPSHIRE	PUBLIC SERVICE CO OF NEW HAMPSHIRE	PUBLIC SERVICE ELECTRIC & GAS CO.	1
2		2						2
3		3						3
4	NAME OF PLANT	4	WABASH RIVER	CAYUGA	MERRIMACK	SCHILLER	BERGEN	4
5	UTILITY-PLANT CODE	5	404500-0800	404500-0900	405000-1100	405000-1400	405500-0100	5
6	STATE	6	INDIANA	INDIANA	NEW HAMPSHIRE	NEW HAMPSHIRE	NEW JERSEY	6
7	COUNTY	7	VIGO	VERMILLION	MERRIMACK	ROCKINGHAM	BERGEN	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO. [1]	8	084 05	084 05	121 01	122 01	048 02	8
9	PLANT CAPACITY (MW)	9	962.00	1,062.00	459.24	178.75	650.40	9
10	ANNUAL GENERATION (MWH)[2]	10	4,744,100	5,799,600	2,749,600	903,700	3,068,560	10
11	PLANT HEAT RATE (BTU/KWH)[2]	11	10,174	9,683	10,238	11,807	9,872	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	12	2,212.00	2,710.00	1,045.00		39.45	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	10,907	10,363	13,443		11,134	13
14	AVERAGE SULFUR CONTENT (%)	14	2.54	2.17	2.08		1.60	14
15	AVERAGE ASH CONTENT (%)	15	11.58	13.38	7.09		11.90	15
16	AVERAGE MOISTURE CONTENT (%)	16	13.87	15.69	4.48		7.80	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	36.60	20.40		1,714.00	4,422.50	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	137,000	137,000		148,093	142,865	18
19	AVERAGE SULFUR CONTENT (%)	19	.31	.31		2.15	.34	19
20	GAS: CONSUMPTION (1,000 MCF)	20					2,731.50	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21					1,031	21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	22	6	2	2	5	2	22
23	- NO. OF WET BOTTOM	23			2		2	23
24	- NO. WITH FLY ASH REINJECTION	24			2			24
25	- NO. WITH MECHANICAL PRECIPITATORS	25	3					25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	4	2	2			26
27	- NO. WITH COMBINATION PRECIPITATORS[4]	27				2	2	27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[3]	29	20.00 24.00	20.00	16.00	12.50 20.00	15.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30	84.00					30
31	TESTED, LOW - HIGH	31						31
32	ESTIMATED, LOW - HIGH	32						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[3]: DESIGN, LOW - HIGH	33	98.00 98.50	99.00	90.00 92.40		98.00	33
34	TESTED, LOW - HIGH	34	98.00 98.50	91.11 93.78	88.90 97.50		94.90 96.70	34
35	EST., LOW - HIGH	35	98.00 98.50	97.00	82.07 91.50			35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[3]: PARTICULATE MATTER (1,000 TONS)	39	3.74	9.25	.91	.29	.18	39
40	SULFUR OXIDE (1,000 TONS)	40	110.16	115.28	42.59	12.36	6.28	40
41	NITROGEN OXIDES (1,000 TONS)	41	19.99	24.43	28.73	3.78	10.88	41
42	STACKS: - TOTAL NO.	42	6	2	2	4	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[3]	43	300.00	500.00	225.00 317.00	137.00 226.00	305.50	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[3]	44				.20		44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	45	241.70	344.40	71.70		3.00	45
46	SOLD (1,000 TONS)[11]	46	10.70		54.10			46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50	236.00					50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51	4,487.00	2,035.00	766.00			51
52	COMBINATION PRECIPITATORS ($1,000)[4]	52				332.00	1,898.60	52
53	DESULFURIZATION SYSTEMS ($1,000)	53						53
54	STACKS ($1,000)	54	532.00	584.00	393.00	474.90	829.50	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55	534.00	153.00	168.00	6.40		55
56	REVENUES FROM SALE OF ASH ($1,000)	56			70.40			56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	59	534.00	153.00	168.00	6.40		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60			70.40			60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R WABASH	R WABASH	R MERRIMACK	R PISCATAQUA	C OVERPECK	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	1,109.80	1,452.60	444.00	252.40	980.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	1,109.70	1,452.50	435.40	250.20	980.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	64	9.54 .10	.10	8.60	2.11 2.20	0.93	64
65	PEAK LOAD MONTH : SUMMER - WINTER[3]	65	AUG OEC	AUG OEC	AUG JAN	AUG JAN	JUL OEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	82.00 49.00	80.00 50.00	89.86 35.00	79.50 44.00	92.00 44.00	66
67	AT OUTFALL, SUMMER - WINTER	67	99.00 68.00	70.00	91.00 51.10	91.00 68.00	103.00 54.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	16,600.00	2,243.00	2,243.00	17,600.00		68
69	- WINTER	69	16,300.00	11,250.00	5,745.00	17,600.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, O, O[15]	70		C				70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	1.10	.60	.18	.39	.30	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	.10	165.98	79.11	39.22	104.30	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73	200.70	173.81				73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	41.40 3.60	58.00	19.43	4.57	6.50	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[3]	76	YES YES	YES	YES	YES YES	YES	76
77	SEWAGE DISPOSAL: METHOD (PS, ST, SW, OT)[16]	77	ST	OT	ST	ST	PS	77
78	RECEIVING WATER BODY	78		O ASH POND		R PISCATAQUA		78
79	POND DISCHARGE[16]: PH, BOILER BLOWDOWN - ASH SETTLING	79	9.00 9.00	8.50			7.10	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80	5.00 50.00				4.60	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81	[illegible]				[illegible]	81
82	- ASH SETTLING	82	30,800.00	52,206.39			218.20	82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[17]: ONCE THROUGH COOLING (FRESH)	83	6 962.00					83
84	ONCE THROUGH COOLING (SALINE)	84				4 178.75	2 650.00	84
85	COOLING PONDS	85						85
86	COOLING TOWERS	86						86
87	COMBINATIONS[17]	87		2 1,062.00	2 459.24			87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1953 1968	1970 1972	1960 1968	1949 1957	1959 1960	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[18]	89	15.70 22.50	16.00	22.00 26.00	17.00 20.00	11.20	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	1,044.00	1,186.00	416.00	245.00	968.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	1,004.00	1,186.00	444.00	252.40	968.00	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92	2,998.00	3,080.00	1,924.00	1,889.00	2,813.70	92
93	COOLING PONDS ($1,000)	93			2,400.00			93
94	COOLING TOWERS ($1,000)	94		3,227.00				94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95	283.00	141.00	279.50	44.70	34.70	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96	13.00	14.00	5.70	3.00	34.30	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97	274.00	262.00	38.20	47.30	65.70	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	32.00	32.00	27.80	8.20	16.30	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	PUBLIC SERVICE ELECTRIC & GAS CO.	PUBLIC SERVICE ELECTRIC & GAS CO.	PUBLIC SERVICE ELECTRIC & GAS CO.	PUBLIC SERVICE ELECTRIC & GAS CO.	PUBLIC SERVICE ELECTRIC & GAS CO.	
4	NAME OF PLANT	BURLINGTON	ESSEX	HUDSON	KEARNY 8	LINDEN	
5	UTILITY-PLANT CODE	405500-0200	405500-0300	405500-0500	405500-0800	405500-0900	
6	STATE	NEW JERSEY	NEW JERSEY	NEW JERSEY	NEW JERSEY	NEW JERSEY	
7	COUNTY	BURLINGTON	ESSEX	HUDSON	HUDSON	UNION	
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	045 02	043 02	043 02	043 02	043 02	
9	PLANT CAPACITY (MW)	490.50	184.50	1,114.50	598.60	612.90	
10	ANNUAL GENERATION (MWH) 3/	2,001,800	606,000	5,413,600	1,351,600	2,125,100	
11	PLANT HEAT RATE (BTU/KWH) 3/	11,476	19,000	9,497	11,937	16,270	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	9.00		985.80			
13	AVERAGE HEAT CONTENT (BTU/LB)	12,117		12,261			
14	AVERAGE SULFUR CONTENT (%)	1.40		1.14			
15	AVERAGE ASH CONTENT (%)	13.70		11.58			
16	AVERAGE MOISTURE CONTENT (%)	5.60		6.14			
17	OIL: CONSUMPTION (1,000 BARRELS)	3,771.60	1,916.00	3,348.70	2,688.50	5,762.00	
18	AVERAGE HEAT CONTENT (BTU/GAL)	143,886	143,073	142,950	142,836	142,868	
19	AVERAGE SULFUR CONTENT (%)	.29	.35	.39	.33	.50	
20	GAS: CONSUMPTION (1,000 MCF)			6,893.20			
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)			1,032			

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	6	11	2	8	5	
23	- NO. OF WET BOTTOM			1			
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS						
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	4	3	2	2		
27	- NO. WITH COMBINATION PRECIPITATORS 4/	1					
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	23.00	15.00 20.00	18.00	20.00	14.00 15.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH						
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 5/: DESIGN, LOW - HIGH	97.00	90.00 93.00	99.00 99.50	97.00		
34	TESTED, LOW - HIGH			98.50			
35	EST., LOW - HIGH	85.00					
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS 6/: PARTICULATE MATTER (1,000 TONS)	.18	.21	1.46	.07	.97	
40	SULFUR OXIDE (1,000 TONS)	3.92	2.25	26.41	2.98	9.67	
41	NITROGEN OXIDES (1,000 TONS)	8.39	4.22	17.60	5.93	12.71	
42	STACKS: - TOTAL NO.	4	4	2	4	6	
43	- HEIGHT (FEET), LOWEST - HIGHEST 7/	225.30	273.00	325.50 498.00	276.30 277.80	225.00 225.50	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 8/						
45	TOTAL ASH: COLLECTED (1,000 TONS) 9/	1.30		117.90			
46	SOLD (1,000 TONS) 10/	.50					
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 11/						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
51	ELECTROSTATIC PRECIPITATORS ($1,000)	390.00	318.00	2,767.30			
52	COMBINATION PRECIPITATORS ($1,000) 4/	247.00			58.00		
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	124.50	158.90	2,019.70	320.60	609.00	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)			98.50			
56	REVENUES FROM SALE OF ASH ($1,000)	.40					
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 12/			98.50			
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	.40					

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R DELAWARE	R PASSAIC	R HACKENSACK	R HACKENSACK	O ARTHUR KILL	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	815.00	445.00	1,405.00	626.00	537.00	
63	AVERAGE RATE OF DISCHARGE (CFS)	815.00	445.00	1,405.00	626.00	537.00	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 13/						
65	PEAK LOAD MONTH : SUMMER - WINTER 14/	JUL OEC	OEC	JUL OEC		JUL OEC	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	87.00 35.00	38.00	92.00 37.00	86.00 39.00	81.00 34.00	
67	AT OUTFALL, SUMMER - WINTER	50.00	48.00	50.00	48.00	92.00 45.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						
69	- WINTER	31,070.00					
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, O, O 15/				M		
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP					13.65	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	147.98	12.72	367.46	60.74	1,000.00	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP					402.00	
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP			779.00	90.00	240.00	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 16/	YES	YES	YES	YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	PS	PS	PS		ST	
78	RECEIVING WATER BODY						
79	POND DISCHARGE 18/ PH, - ASH SETTLING			6.90			
80	SUSPENDED SOLIDS (PPM), - ASH SETTLING	5.00	5.00	5.30	7.00		
81	VOLUME (1,000 CUFT/YR),						
82	- ASH SETTLING			130.92			

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	7 491.00	6 293.00	2 1,114.00	8 598.00	2 520.00	
84	ONCE THROUGH COOLING (SALINE)						
85	COOLING POND(S)						
86	COOLING TOWER(S)						
87	COMBINATION 19/						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1919 1955	1916 1947	1964 1968	1925 1953	1957	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 20/	12.20 18.00	24.80	12.40 15.00	10.40 12.50	12.20 15.20	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	708.60	693.00	1,342.00	1,521.00	528.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	708.60	574.00	1,382.00	1,521.00	538.00	

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,423.50	1,700.90	4,343.80	2,076.20	1,919.20	
93	COOLING PONDS ($1,000)						
94	COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	92.00	83.50	60.00	108.90	178.70	
96	COST OF CHEMICAL ADDITIVES ($1,000)	5.40	9.20	46.60	7.10	13.50	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	79.60	57.50	107.40	65.50	356.60	
98	COST OF CHEMICAL ADDITIVES ($1,000)	22.00	5.00	45.20	11.30	335.80	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	PUBLIC SERVICE ELECTRIC & GAS CO.	PUBLIC SERVICE ELECTRIC & GAS CO.	PUBLIC SERVICE ELECTRIC & GAS CO.	PUBLIC SERVICE CO. OF COLORADO	PUBLIC SERVICE CO. OF COLORADO	
4	NAME OF PLANT	MARION	MERCER	SEWAREN	ARAPHOE	CAMEO	
5	UTILITY-PLANT CODE	405500-1000	405500-1100	405500-1200	406000-0200	406000-0500	
6	STATE	NEW JERSEY	NEW JERSEY	NEW JERSEY	COLORADO	COLORADO	
7	COUNTY	HUDSON	MERCER	MIDDLESEX	DENVER	MESA	
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	043 02	045 02	043 02	036 10	035 14	
9	PLANT CAPACITY (MW)[3]	125.00	652.80	820.00	250.50	75.00	
10	ANNUAL GENERATION (MWH)[3]	442,700	3,603,300	3,155,300	1,456,800	534,500	
11	PLANT HEAT RATE (BTU/KWH)[3]	14,678	9,151	11,513	12,196	11,609	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)		1,215.80	5.70	522.18	178.62	
13	AVERAGE HEAT CONTENT (BTU/LB)		12,604	12,898	10,234	11,008	
14	AVERAGE SULFUR CONTENT (%)		1.35	1.40	.73	.52	
15	AVERAGE ASH CONTENT (%)		11.25	12.80	7.48	10.08	
16	AVERAGE MOISTURE CONTENT (%)		6.46	8.90	13.21	10.02	
17	OIL: CONSUMPTION (1,000 BARRELS)	1,081.20		5,787.20		.03	
18	AVERAGE HEAT CONTENT (BTU/GAL)	143,071		143,222		136,317	
19	AVERAGE SULFUR CONTENT (%)	.37		.38		.19	
20	GAS: CONSUMPTION (1,000 MCF)		2,446.10	1,309.50	8,348.48	2,556.65	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,031	1,034	847	868	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2	2	5	4	2	
23	- NO. OF WET BOTTOM		2				
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS				1	1	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	2	2				
27	- NO. WITH COMBINATION PRECIPITATORS[4]			4	3	1	
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	15.00	18.00 20.00	26.30 28.50	23.00 25.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH				85.00	80.00	
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH				75.00	75.00	
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	95.00	99.00	95.00 97.00	97.40 99.60	97.40	
34	TESTED, LOW - HIGH		99.20	80.00	93.20 97.50		
35	EST., LOW - HIGH		99.00	80.00	95.50 99.40	97.60	
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.01	.89	.46	1.19	.41	
40	SULFUR OIOXIOE (1,000 TONS)	1.34	32.17	7.53	7.47	1.82	
41	NITROGEN OXIOES (1,000 TONS)	2.38	18.71	13.06	5.62	2.11	
42	STACKS: - TOTAL NO.	1	2	5	2	2	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	223.30	325.50	225.00 325.00	250.00	150.00 200.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]		135.10	.70	38.41	14.77	
46	SOLD (1,000 TONS)[11]		23.70				
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				72.10	48.30	
51	ELECTROSTATIC PRECIPITATORS ($1,000)	182.00	5,000.00				
52	COMBINATION PRECIPITATORS ($1,000)[4]			1,384.00	1,364.09	275.83	
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	22.10	583.40	782.00	193.45	113.20	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		190.60		163.35	95.17	
56	REVENUES FROM SALE OF ASH ($1,000)		17.80				
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		190.60		163.36	95.18	
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		17.80				

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R HACKENSACK	R DELAWARE	O ARTHUR KILL	RW PLATTE	O U.S.B.R. CANAL	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	189.00	1,087.00	1,410.00	3.90	67.10	
63	AVERAGE RATE OF DISCHARGE (CFS)	189.00	1,087.00	1,410.00	1.32	66.60	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.63	9.35	12.13	2.58	.50	
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL DEC	JUL DEC	JUL DEC	AUG JAN	AUG JAN	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	92.00 39.00	85.00 39.00	83.00 38.00	66.00 34.00	75.00 33.00	
67	AT OUTFALL, SUMMER - WINTER	105.00 55.00	97.00 51.00	94.00 49.00	77.00 51.00	104.00 69.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		18,088.00			3,366.00	
69	- WINTER		31,070.00			1,894.00	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]						
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	5.00	.35		5.43	.16	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.18	89.99	128.97	.21	.06	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	72.00	57.00	330.00			
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	ST		PS	ST	
78	RECEIVING WATER BODY					R COLORADO	
79	PONO DISCHARGE[19]/PH, BOILER BLOWDOWN - ASH SETTLING	10.50	6.90	10.50	8.80 8.80		
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	5.00	4.10	5.00	420.00 420.00		
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	281.00		3,150.00			
82	- ASH SETTLING		203.65		28,300.00		

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)		2 652.00				
84	ONCE THROUGH COOLING (SALINE)	1 125.00		5 820.00			
85	COOLING PONO(S)						
86	COOLING TOWER(S)				4 250.50		
87	COMBINATION[21]					2 75.00	
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1941	1960	1948 1962	1950 1955	1957	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	12.30	11.20	10.90 14.70	19.70 21.30	15.00	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	176.00	1,056.00	1,302.00	346.00	75.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	176.00	1,056.00	1,302.00		77.80	

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	283.40	2,918.40	2,873.50		555.00	
93	COOLING PONDS ($1,000)					53.00	
94	COOLING TOWERS ($1,000)				755.00		

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	50.40	37.90	168.50	92.20	2.50	
96	COST OF CHEMICAL ADDITIVES ($1,000)	43.20	5.40	22.30	51.90		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	15.10	89.80	127.70	9.18	1.69	
98	COST OF CHEMICAL ADDITIVES ($1,000)	1.60	15.50	49.70	3.79	2.91	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	PUBLIC SERVICE CO. OF COLORADO	PUBLIC SERVICE CO. OF COLORADO	PUBLIC SERVICE CO. OF COLORADO	PUBLIC SERVICE CO. OF COLORADO	PUBLIC SERVICE CO. OF OKLAHOMA	
NAME OF PLANT	CHEROKEE	CONANCHE	VALMONT	ZUNI	NORTHEASTERN	
UTILITY-PLANT CODE	406000-0600	406000-0650	406000-1200	406000-1300	406300-0500	
STATE	COLORADO	COLORADO	COLORADO	COLORADO	OKLAHOMA	
COUNTY	ADAMS	PUEBLO	BOULDER	DENVER	ROGERS	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	036 10	036 11	036 10	036 10	116 11	
PLANT CAPACITY (MW)	801.30	382.50	281.75	115.25	642.50	
ANNUAL GENERATION (MWH)[3]	5,217,300	238,078	1,445,800	572,800	4,408,700	
PLANT HEAT RATE (BTU/KWH)[3]	10,655	10,983	11,415	13,737	9,450	
AIR QUALITY CONTROL DATA						
FUEL CONSUMPTION DATA (ANNUAL)						
COAL: CONSUMPTION (1,000 TONS)	2,079.58	145.64	537.23			
AVERAGE HEAT CONTENT (BTU/LB)	10,768	8,620	10,400			
AVERAGE SULFUR CONTENT (%)	.51	.30	.82			
AVERAGE ASH CONTENT (%)	8.47	5.10	7.53			
AVERAGE MOISTURE CONTENT (%)	9.29	29.53	12.57			
OIL: CONSUMPTION (1,000 BARRELS)		15.37		472.64	2.88	
AVERAGE HEAT CONTENT (BTU/GAL)		136,488		149,500	138,000	
AVERAGE SULFUR CONTENT (%)		.24		.80	.18	
GAS: CONSUMPTION (1,000 MCF)	12,821.26	18.52	6,412.30	7,432.15	39,297.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,000	856	832	847	1,060	
PLANT EQUIPMENT DATA						
BOILERS: - TOTAL NO.	4	1	9	3	2	
- NO. OF WET BOTTOM			4			
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS				1		
- NO. WITH ELECTROSTATIC PRECIPITATORS		1				
- NO. WITH COMBINATION PRECIPITATORS[4]	4		1	1		
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]						
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	18.00 27.50	27.00	27.00 28.50	15.00 28.50	7.00 8.00	
TESTED, LOW - HIGH				85.00		
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	90.10 99.30		98.10	98.10		
TESTED, LOW - HIGH			61.85			
EST., LOW - HIGH	85.36 99.30	99.60	94.10			
DESULFURIZATION SYSTEN EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
PLANT OPERATING DATA AND COST OF EQUIPMENT						
EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	15.15	.03	1.55	.03		
SULFUR OIOXIDE (1,000 TONS)	20.79	.87	8.63	1.27		
NITROGEN OXIDES (1,000 TONS)	19.68	1.35	5.28	2.49	7.67	
STACKS: - TOTAL NO.	3	1	3	3	3	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	300.00 400.00	500.00	250.00 350.00	45.00 292.00	183.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]				.01		
TOTAL ASH: COLLECTED (1,000 TONS)[10]	160.37	9.84	62.84			
SOLD (1,000 TONS)[11]	1.96					
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				89.06		
ELECTROSTATIC PRECIPITATORS ($1,000)		7,000.00				
COMBINATION PRECIPITATORS ($1,000)[4]	2,997.28		688.66	307.90		
DESULFURIZATION SYSTENS ($1,000)						
STACKS ($1,000)	760.61	1,097.00	327.40	123.90		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	425.89	13.18	61.93			
REVENUES FROM SALE OF ASH ($1,000)	5.65					
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)					3,524.00	
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	425.89	13.19	61.93	5.24		
TOTAL BYPRODUCT SALES REVENUES ($1,000)	5.65					
WATER QUALITY CONTROL DATA						
COOLING WATER: SOURCE (CODES R, L, S, C, W, M & O EXPL. IN FOOTNOTES)	R PLATTE	R ARKANSAS	C BOULDER	R PLATTE	L OOLOGAH	
AVERAGE RATE OF WITHDRAWAL (CFS)	18.05	7.24	10.05	37.14	10.15	
AVERAGE RATE OF DISCHARGE (CFS)	1.91	1.00	3.53	35.91	2.03	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	16.14	6.24	6.52	1.23	8.12	
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG JAN	AUG JAN	AUG JAN	AUG JAN	AUG DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66.00 41.00	AUG JAN	70.00 34.00	64.00 36.00	96.00 70.00	
AT OUTFALL, SUMMER - WINTER	76.00 54.00		88.00 49.00	76.00 46.00	92.00 63.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						
- WINTER					3,524.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D[16]		O				
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.29	.40	1.41	3.18 10.22	32.15 .01	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	3.40	92.00	.08		9.93	
LIME (TONS), COOLING WATER - BOILER MAKEUP		200.00		50.85	9.08	
ALUM (TONS), COOLING WATER - BOILER MAKEUP		100.00			2.29	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.12	3.30		2.36	.41	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES YES	YES	YES YES	YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS		ST	PS	OT	
RECEIVING WATER BODY			O LEECHING FIELD		C FOUR MILE	
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	8.50	8.10	9.50	9.40		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		864.00	750.00			
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	28,050.00	31,530.00	1,638.00			
COOLING FACILITY DATA						
NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)			5 281.75			
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)				1 40.25		
COOLING TOWER(S)	4 801.30	1 382.50		1 75.00	2 642.50	
COMBINATION[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEN	1957 1968	1973	1924 1964	1948 1954	1967 1969	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	13.00 18.00	22.42	10.00	15.00 21.30	15.50 23.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,017.00	316.40	467.10	165.00	742.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTENS (CFS)				64.60		
CAPITAL COSTS OF COOLING FACILITIES						
ONCE THROUGH COOLING SYSTENS ($1,000)				107.00		
COOLING PONDS ($1,000)			978.00			
COOLING TOWERS ($1,000)	2,185.00			482.00		
ANNUAL COOLING WATER EXPENSES						
OPERATION AND MAINTENANCE EXPENSES ($1,000)	45.46	.42	21.59	119.16		
COST OF CHEMICAL ADDITIVES ($1,000)	145.65	23.69		18.25	38.00	
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
OPERATION AND MAINTENANCE EXPENSES ($1,000)	32.62	.70	.95	20.46		
COST OF CHEMICAL ADDITIVES ($1,000)	10.14	20.31	1.29	12.41	3.00	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	PUBLIC SERVICE CO. OF OKLAMONA	PUBLIC SERVICE CO. OF OKLAMONA	PUBLIC SERVICE CO. OF OKLAMONA	NEW ULN PUBLIC UTIL COMM	PUERTO RICO WATER RESOURCES AUTH.	1
2							2
3							3
4	NAME OF PLANT	SOUTHWESTERN	TULSA	WELEETKA	NEW ULM	PALO SECO	4
5	UTILITY-PLANT CODE	406300-0600	406300-0700	406300-0800	407000-0200	407700-0100	5
6	STATE	OKLAHONA	OKLAHONA	OKLAHONA	NINNESOTA	PUERTO RICO	6
7	COUNTY	CADDO	TULSA	OKFUSKEE	BROWN	TOA BAJA	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	[illegible] 11	[illegible] 11	[illegible] 11	[illegible] 07	[illegible] 23	8
9	PLANT CAPACITY (NW)	483.00	475.00	83.00	29.50	644.80	9
10	ANNUAL GENERATION (NWH) 3/	2,965,600	2,417,100	105,500	93,400	2,198,475	10
11	PLANT HEAT RATE (BTU/KWH) 3/	10,617	10,867	16,449	19,327	11,275	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUNPTION (1,000 TONS)				20.05		12
13	AVERAGE HEAT CONTENT (BTU/LB)				12,500		13
14	AVERAGE SULFUR CONTENT (%)				1.90		14
15	AVERAGE ASH CONTENT (%)				7.86		15
16	AVERAGE NOISTURE CONTENT (%)				9.87		16
17	OIL: CONSUNPTION (1,000 BARRELS)	5.08	6.38			3,969.80	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	138,075	138,005			148,407	18
19	AVERAGE SULFUR CONTENT (%)	.33	.37			2.03	19
20	GAS: CONSUNPTION (1,000 MCF)	29,476.00	25,760.00	1,619.00	1,324.90		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,067	1,018	1,072	985		21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	4	4	6	4	4	22
23	- NO. OF WET BOTTON						23
24	- NO. WITH FLY ASH REINJECTION				3		24
25	- NO. WITH NECHANICAL PRECIPITATORS				3		25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS						26
27	- NO. WITH CONBINATION PRECIPITATORS 4/						27
28	- NO. WITH OESULFURIZATION SYSTENS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	[illegible] 8.00	[illegible] 15.00	[illegible] 15.00	30.00	12.00 15.00	29
30	NECHANICAL PRECIPITATOR EFFICIENCY : OESIGN, LOW - HIGH				93.00		30
31	TESTED, LOW - HIGH						31
32	ESTINATED, LOW - HIGH				93.00		32
33	ELECTROSTATIC/CONBINATION PRECIPITATOR EFFICIENCY 6/: OESIGN, LOW - HIGH						33
34	TESTED, LOW - HIGH						34
35	EST., LOW - HIGH						35
36	OESULFURIZATION SYSTEN EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)				.39	.67	39
40	SULFUR OIOXIOE (1,000 TONS)	.01	.01		.75	27.04	40
41	NITROGEN OXIOES (1,000 TONS)	5.76	5.04	.32	.40	8.75	41
42	STACKS: - TOTAL NO.	4	7	3	4	6	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	[illegible] 141.00	[illegible] 184.00	[illegible] 113.00	[illegible] 150.00	[illegible] 196.00 221.60	43
44	CONBUSTION CYCLE ADDITIVES (1,000 TONS) 9/					.61	44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/						45
46	SOLD (1,000 TONS) 11/						46
47	TOTAL SULFUR: ELENENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						48
49	ELENENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: NECHANICAL PRECIPITATORS ($1,000)				19.08		50
51	ELECTROSTATIC PRECIPITATORS ($1,000)						51
52	COMBINATION PRECIPITATORS ($1,000) 4/						52
53	OESULFURIZATION SYSTENS ($1,000)						53
54	STACKS ($1,000)				5,100.00		54
55	ASH COLLECTION AND OISPOSAL EXPENSES ($1,000)						55
56	REVENUES FROM SALE OF ASH ($1,000)						56
57	SULFUR PRODUCT COLLECTION AND OISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/						59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O FT. COBB RESVR	R ARKANSAS	R NORTH CANADIAN	N	B SALT WATER	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	5.89	5.36	.86		1,004.00	62
63	AVERAGE RATE OF OISCHARGE (CFS)	1.31	1.34	.21		1,004.00	63
64	AVE. RATE OF CONSUNPTION (CFS), CALCULATED - REPORTED 14/	4.58	4.02	.65		0.63	64
65	PEAK LOAD NONTH : SUMMER - WINTER 15/	AUG OEC	AUG OEC	OEC		SEP OCT	65
66	NAX. TEMP. OURING PEAK NONTH (OEG. F.): AT OIVERSION, SUMMER - WINTER	82.00 46.00	78.00 46.00	[illegible] 104.00 73.00		78.00 78.00	66
67	AT OUTFALL, SUMMER - WINTER	90.00 79.00	[illegible] 84.00	[illegible] 72.00		96.00 96.00	67
68	AVE. FLOW IN RECEIVING BODY OURING PEAK NONTH (CFS): SUMMER	[illegible]	[illegible]	[illegible]		[illegible]	68
69	- WINTER	65.00	10,637.00	662.00		1,004.00	69
70	FREQUENCY OF TENPERATURE NONITORING: C, H, O, O 16/				C		70
71	CHENICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER NAKEUP	23.30 .31	25.56 .37	4.06 .15	10.00	.78	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER NAKEUP	15.98	11.87	14.82		.01	72
73	LIME (TONS), COOLING WATER - BOILER NAKEUP	28.70 3.51			39.00		73
74	ALUN (TONS), COOLING WATER - BOILER NAKEUP	4.44 .54					74
75	CHLORINE (TONS), COOLING WATER - BOILER NAKEUP	9.64 .10	38.87	.60		.57	75
76	OTHER (YES/NO), COOLING WATER - BOILER NAKEUP	YES YES	YES YES	YES YES	YES	YES	76
77	SEWAGE OISPOSAL: NETHOD PS, ST, SW, OT 17/	OT	PS	ST	PS		77
78	RECEIVING WATER BODY	R WASHITA					78
79	POND OISCHARGE: 18/ PH, BOILER BLOWDOWN - ASH SETTLING						79
80	SUSPENDED SOLIOS (PPN), BOILER BLOWDOWN - ASH SETTLING						80
81	VOLUNE (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING						82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (NW) USING 19/: ONCE THROUGH COOLING (FRESH)						83
84	ONCE THROUGH COOLING (SALINE)					4 565.00	84
85	COOLING PONDS						85
86	COOLING TOWERS	3 483.00	9 475.00	3 83.00	4 29.50		86
87	CONBINATION 20/						87
88	COOLING SYSTEN, YEAR OF INSTALLATION: OLDEST SYSTEN - NEWEST SYSTEN	1952 1967	1947 1958	1948 1955	1956 1971	1960 1970	88
89	OESIGN: TENP. RISE ACROSS CONDENSERS (OEG. F), SMALLEST - LARGEST 21/	17.00 20.80	14.50 17.00	14.50 19.00		15.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	548.20	724.80	187.20	109.30	1,005.60	90
91	TOTAL RATE OF WITHORAWAL, ONCE THROUGH COOLING SYSTENS (CFS)					1,400.30	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTENS ($1,000)						92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)				79.30		94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)						95
96	COST OF CHENICAL ADDITIVES ($1,000)	35.00	63.00	10.00		9.00	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)						97
98	COST OF CHENICAL ADDITIVES ($1,000)	6.00	3.00	6.00		2.50	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	1	PUERTO RICO WATER RESOURCES AUTH.	PUERTO RICO WATER RESOURCES AUTH.	PUGET SOUND POWER & LIGHT CO	RICHMOND PWR & LIGHT	ROCHESTER ELEC DEPT	1
2		2						2
3		3						3
4	NAME OF PLANT	4	SAN JUAN	SOUTH COAST	SHUFFLETON	WHITEWATER	SILVER LAKE	4
5	UTILITY-PLANT CODE	5	407700-0200	407700-0300	408000-0400	419500-0200	421500-0300	5
6	STATE	6	PUERTO RICO	PUERTO RICO	WASHINGTON	INDIANA	MINNESOTA	6
7	COUNTY	7	SAN JUAN	GUAYANILLA	KING	WAYNE	OLMSTED	7
8	[illegible] CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	[illegible] 23	[illegible] 23	[illegible] 17	[illegible] 05	[illegible] 07	8
9	PLANT CAPACITY (MW)	9	646.10	1,146.30	86.00	93.00	98.40	9
10	ANNUAL GENERATION (MWH) 3/	10	2,588,268	4,430,230	72,600	316,100	415,972	10
11	PLANT HEAT RATE (BTU/KWH) 3/	11	12,493	10,839	15,005	11,939	11,444	11
	AIR QUALITY CONTROL DATA							
	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12				164.00	97.90	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13				11,506	12,400	13
14	AVERAGE SULFUR CONTENT (%)	14				3.00	1.95	14
15	AVERAGE ASH CONTENT (%)	15				10.00	7.20	15
16	AVERAGE MOISTURE CONTENT (%)	16				12.11	7.50	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	5,472.35	7,685.95	169.70			17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	140,498	148,616	152,585			18
19	AVERAGE SULFUR CONTENT (%)	19	2.46	2.37	1.60			19
20	GAS: CONSUMPTION (1,000 MCF)	20					2,308.98	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21					1,010	21
	PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	22	10	6	3	2	4	22
23	- NO. OF WET BOTTOM	23				2		23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25				1	3	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26				2	1	26
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27						27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	[illegible] 12.20	[illegible] 15.00	[illegible] 10.00	[illegible] 30.00	[illegible] 25.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, [illegible] - HIGH	30				85.00	86.00	30
31	TESTED, [illegible] - HIGH	31						31
32	ESTIMATED, [illegible] - HIGH	32				85.00	82.00	32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, [illegible] - HIGH	33				99.80	99.00	33
34	TESTED, [illegible] - HIGH	34						34
35	EST., [illegible] - HIGH	35				99.80	99.00	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, [illegible] - HIGH	36						36
37	TESTED, [illegible] - HIGH	37						37
38	ESTIMATED, [illegible] - HIGH	38						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	39	.92	1.29	.03	1.01	.44	39
40	SULFUR OXIDE (1,000 TONS)	40	45.16	61.13	.91	9.64	3.74	40
41	NITROGEN OXIDES (1,000 TONS)	41	12.07	16.95	.37	2.46	1.33	41
42	STACKS: - TOTAL NO.	42	11	T	3	2	3	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	43	[illegible] 191.00	[illegible] 259.00	148.00	150.00	[illegible] 200.00 300.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	44						44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	45				16.40	6.60	45
46	SOLD (1,000 TONS) 11/	46						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50					46.61	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51				500.00	192.00	51
52	COMBINATION PRECIPITATORS ($1,000) 4/	52						52
53	DESULFURIZATION SYSTEMS ($1,000)	53						53
54	STACKS ($1,000)	54			150.00		189.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55						55
56	REVENUES FROM SALE OF ASH ($1,000)	56						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	59	133.13					59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60						60
	WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	B SALT WATER	B SALT WATER	L WASHINGTON	R WHITEWATER	R ZUMBRO	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	1,300.00	1,345.34	5.35	2.30	149.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	1,300.00	1,345.34	5.35		149.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64	11.18	[illegible]	.07	1.20		64
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	65	SEP	OCT	OEC	AUG	OEC	AUG	OEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	80.00	80.00	80.00	46.00	72.00	46.00	81.00	45.00	66
67	AT OUTFALL, SUMMER - WINTER	67	95.00	95.00	95.00	55.00			102.00	76.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	68
69	- WINTER	69	1,300.00	1,345.34						83.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OTH 16/	70				C			C		70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS) 1, COOLING WATER - BOILER MAKEUP	71	4.50	1.28	.50	6.50	.09				71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	1,033.07	324.50			14.63				72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73				172.50					73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74				18.50					74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	2.80	.96		6.00					75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	76	YES	YES		YES	YES				76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OTH 16/	77			PS						77
78	RECEIVING WATER BODY	78									78
79	POND DISCHARGE: 18/ PH, BOILER BLOWDOWN - ASH SETTLING	79	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	81
82	- ASH SETTLING	82	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	82
	COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING 19/: ONCE THROUGH COOLING (FRESH)	83			2 87.50		2 19.00	83
84	ONCE THROUGH COOLING (SALINE)	84	10 568.00	6 1,073.00				84
85	COOLING POND(S)	85						85
86	COOLING TOWER(S)	86				2 93.00		86
87	COMBINATION 20/	87					2 79.40	87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1951 1969	1958 1973	1929	1953 1972	1948 1969	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 21/	89	[illegible] 15.00	[illegible] 15.00	15.00	18.00	[illegible] 17.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	1,306.00	1,345.40	360.00	153.00	190.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	1,306.00	1,345.20	360.00		190.00	91
	CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92			500.00			92
93	COOLING PONDS ($1,000)	93						93
94	COOLING TOWERS ($1,000)	94				356.00	297.00	94
	ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95			2.00	35.00		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96	3.88	14.17		24.00		96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97			3.00	22.00		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	134.28	99.07	15.00	8.00		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1 NAME OF UTILITY	1	ROCHESTER GAS & ELECTRIC CORP.	ROCHESTER GAS & ELECTRIC CORP.	ROCHESTER GAS & ELECTRIC CORP.	RUSTON WTR & LT PLANT	SALT R. PROJ. AGR IMPR PWR DIST [1]
4 NAME OF PLANT	4	ROCHESTER #3	ROCHESTER #7	ROCHESTER #13	MCCOMALO	AGUA FRIA #2
5 UTILITY-PLANT CODE	5	422000-0500	422000-0700	422000-0800	42TT50-0100	433000-0100
6 STATE	6	NEW YORK	NEW YORK	NEW YORK	LOUISIANA	ARIZONA
7 COUNTY	T	MONROE	MONROE	WAYNE	LINCOLN	MARICOPA
8 AIR QUALITY CONTROL REGION NO. [2] - WATER RESOURCE REGION NO. [3]	8	160 04	160 04	160 04	022 11	013 15
9 PLANT CAPACITY (MW)	9	196.20	252.60	490.00	40.00	390.00
10 ANNUAL GENERATION (MWH) [4]	10	614,800	1,242,900	3,395,564	115,101	2,308,800
11 PLANT HEAT RATE (BTU/KWH) [4]	11	18,849	10,534	10,803	11,789	10,06T

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)	12	210.21	512.48			
13 AVERAGE HEAT CONTENT (BTU/LB)	13	12,680	12,T06			
14 AVERAGE SULFUR CONTENT (%)	14	1.98	2.06			
15 AVERAGE ASH CONTENT (%)	15	9.T5	9.T8			
16 AVERAGE MOISTURE CONTENT (%)	16	5.29	5.22			
17 OIL: COMSUMPTION (1,000 BARRELS)	17	998.48	11.22			2,282.23
18 AVERAGE HEAT CONTENT (BTU/GAL)	18	148,985	137,980			142,645
19 AVERAGE SULFUR CONTENT (%)	19	2.11	.30			.6T
20 GAS: COMSUMPTION (1,000 MCF)	20	2.40			1,355.57	8,923.33
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	538			1,001	1,0T2

PLANT EQUIPMENT DATA

22 BOILERS: - TOTAL NO.	22	T	4		2	3
23 - NO. OF WET BOTTOM	23					
24 - NO. WITH FLY ASH REINJECTION	24	6				
25 - NO. WITH MECHANICAL PRECIPITATORS	25					
26 - NO. WITH ELECTROSTATIC PRECIPITATORS	26	T	4			
27 - NO. WITH COMBINATION PRECIPITATORS [4]	27					
28 - NO. WITH DESULFURIZATION SYSTEMS	28					
29 - EXCESS AIR USED I%(, LOWEST BOILER - HIGHEST BOILER [5]	29	25.00 30.00	25.00		2.00	7.00 10.00
30 MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30					
31 TESTED, LOW - HIGH	31					
32 ESTIMATED, LOW - HIGH	32					
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [5]: DESIGN, LOW - HIGH	33	9T.00 9T.50	9T.50			
34 TESTED, LOW - HIGH	34	95.00	95.30			
35 EST., LOW - HIGH	35	72.00 94.90	95.20			
36 DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36					
37 TESTED, LOW - HIGH	3T					
38 ESTIMATED, LOW - HIGH	38					

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMMISSIONS [6]: PARTICULATE MATTER (1,000 TONS)	39	1.55	3.24			.38
40 SULFUR DIOXIDE (1,000 TONS)	40	15.24	20.T0			5.13
41 NITROGEN OXIDES (1,000 TONS)	41	4.06	4.64		.03	6.7T
42 STACKS: - TOTAL NO.	42	3	2		2	6
43 - HEIGHT (FEET), LOWEST - HIGHEST [5]	43	254.00 265.00	250.00		60.00	120.00 123.00
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS) [4]	44					
45 TOTAL ASH: COLLECTED (1,000 TONS) [10]	45	19.50	46.60			
46 SOLD (1,000 TONS) [11]	46		8.70			
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	4T					
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]	48					
49 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49					
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50					
51 ELECTROSTATIC PRECIPITATORS ($1,000)	51	T18.40	T12.50			
52 COMBINATION PRECIPITATORS ($1,000) [4]	52					
53 DESULFURIZATION SYSTEMS ($1,000)	53					
54 STACKS ($1,000)	54	188.20	291.20			264.00
55 ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55	T0.30	1T1.00			
56 REVENUES FROM SALE OF ASH ($1,000)	56		1T.00			
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	5T					
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58					
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	59	T0.30	1T1.00			
60 TOTAL BYPRODUCT SALES REVENUES ($1,000)	60		1T.00			

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R GENESEE	L ONTARIO	L ONTARIO	M	O IRRIG CANAL
62 AVERAGE RATE OF WITHDRAWAL (CFS)	62	146.89	231.39	841.53	2.30	18.00
63 AVERAGE RATE OF DISCHARGE (CFS)	63	145.13	231.39	841.53		T.00
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	64	1.26 1.T6		7.24	.23	11.00
65 PEAK LOAD MONTH : SUMMER - WINTER [15]	65	SEP NOV	SEP JAN	SEP NOV	AUG	OEC
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	81.00 50.00	80.00 40.00	68.00 48.00	88.00 82.00	80.00 60.00
67 AT OUTFALL, SUMMER - WINTER	67	104.00 65.00	63.00	68.00	104.00 94.00	87.00 87.00
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	115.00				5.00
69 - WINTER	69	2,110.00				2.00
TO FREQUENCY OF TEMPERATURE MONITORING: C, M, O, ON [16]	TO	C			M	
T1 CHEMICAL ADDITIVES: PHOSPHATE (TONS) [1], COOLING WATER - BOILER MAKEUP	T1	10.04	.0T	.71	.03	34.68 .55
T2 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	T2	15.0T	39.30	50.00	.01	.03
T3 LIME (TONS), COOLING WATER - BOILER MAKEUP	T3	170.02				20.00
T4 ALUM (TONS), COOLING WATER - BOILER MAKEUP	T4					
T5 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	T5	124.40	217.00	4.00	23.00	
T6 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	T6	YES	YES	YES	YES	YES YES
T7 SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	T7	PS	PS	ST	PS	ST
T8 RECEIVING WATER BODY	T8					
T9 POND DISCHARGE [19]: PH, BOILER BLOWDOWN - ASH SETTLING	T9	9.00	8.42			
80 SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80	237.00	8.6T			
81 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81					
82 - ASH SETTLING	82	14,600.00	112,T00.00			

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83	9 193.70	4 252.60	1 490.00		
84 ONCE THROUGH COOLING (SALINE)	84					
85 COOLING PONDS	85					
86 COOLING TOWERS	86				2 39.65	3 390.40
87 COMBINATION [20]	87					
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1914 1959	1949 195T	1968	1963 1968	1957 1961
89 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [21]	89	19.60 20.00	19.60	19.60	20.00	13.20 23.20
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	270.80	255.00	844.40	400.00	51T.40
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	270.80	259.00	844.40		

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTEMS ($1,000)	92	349.T0	1,58T.00	6,983.00		
93 COOLING PONDS ($1,000)	93					
94 COOLING TOWERS ($1,000)	94				150.00	2,8T1.00

ANNUAL COOLING WATER EXPENSES

95 OPERATION AND MAINTENANCE EXPENSES ($1,000)	95	118.00	99.T0	160.20	10.00	82.40
96 COST OF CHEMICAL ADDITIVES ($1,000)	96	1.00	5.30	9.00	8.00	45.00

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION AND MAINTENANCE EXPENSES ($1,000)	97	127.00	52.80	21.00	6.00	T2.40
98 COST OF CHEMICAL ADDITIVES ($1,000)	98	27.00	7.00	5.80	1.20	6.00

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1 NAME OF UTILITY	SALT R. PROJ. AGR IMPR PWR DIST	SALT R. PROJ. AGR IMPR PWR DIST	SAN DIEGO GAS & ELECTRIC CO.	SAN DIEGO GAS & ELECTRIC CO.	SAN DIEGO GAS & ELECTRIC CO.	
4 NAME OF PLANT	CROSSCUT	KYRENE	ENCINA	SILVER GATE	SOUTH BAY	
5 UTILITY-PLANT CODE	433000-0300	433000-0600	433500-0300	433500-0500	433500-0600	
6 STATE	ARIZONA	ARIZONA	CALIFORNIA	CALIFORNIA	CALIFORNIA	
7 COUNTY	MARICOPA	MARICOPA	SAN DIEGO	SAN DIEGO	SAN DIEGO	
8 AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	015 IS	015 15	029 18	029 18	029 18	
9 PLANT CAPACITY (MW)	30.00	108.00	637.00	247.00	714.00	
10 ANNUAL GENERATION (MWH)[3]	14,100	378,300	2,106,600	646,300	3,876,200	
11 PLANT HEAT RATE (BTU/KWH)[3]	17,033	12,193	12,381	12,925	10,628	
AIR QUALITY CONTROL DATA						
FUEL CONSUMPTION DATA (ANNUAL)						
12 COAL: CONSUMPTION (1,000 TONS)						
13 AVERAGE HEAT CONTENT (BTU/LB)						
14 AVERAGE SULFUR CONTENT (%)						
15 AVERAGE ASH CONTENT (%)						
16 AVERAGE MOISTURE CONTENT (%)						
17 OIL: CONSUMPTION (1,000 BARRELS)		416.36	3,473.00	498.00	4,197.00	
18 AVERAGE HEAT CONTENT (BTU/GAL)		143,615	147,137	150,288	148,903	
19 AVERAGE SULFUR CONTENT (%)		.89	.29	.40	.43	
20 GAS: CONSUMPTION (1,000 MCF)	226.14	1,967.94	4,386.00	4,946.00	14,244.00	
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,072	1,068	1,053	1,053	1,054	
PLANT EQUIPMENT DATA						
22 BOILERS: - TOTAL NO.	6	2	4	6	4	
23 - NO. OF WET BOTTOM						
24 - NO. WITH FLY ASH REINJECTION						
25 - NO. WITH MECHANICAL PRECIPITATORS						
26 - NO. WITH ELECTROSTATIC PRECIPITATORS						
27 - NO. WITH COMBINATION PRECIPITATORS[4]						
28 - NO. WITH DESULFURIZATION SYSTEMS						
29 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	15.00	13.00 15.00	7.00 18.00	15.00	5.00 9.00	
30 MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
31 TESTED, LOW - HIGH						
32 ESTIMATED, LOW - HIGH						
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH						
34 TESTED, LOW - HIGH						
35 EST., LOW - HIGH						
36 DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37 TESTED, LOW - HIGH						
38 ESTIMATED, LOW - HIGH						
PLANT OPERATING DATA AND COST OF EQUIPMENT						
39 EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)		.07	.58	.08	.71	
40 SULFUR DIOXIDE (1,000 TONS)		1.24	3.38	.67	6.06	
41 NITROGEN OXIDES (1,000 TONS)	.04	1.30	8.51	2.06	12.03	
42 STACKS: - TOTAL NO.	6	2	4	6	4	
43 - HEIGHT (FEET), LOWEST - HIGHEST[8]	56.00	120.00	173.00	115.75 124.00	174.50	
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45 TOTAL ASH: COLLECTED (1,000 TONS)[10]						
46 SOLD (1,000 TONS)[11]						
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
51 ELECTROSTATIC PRECIPITATORS ($1,000)						
52 COMBINATION PRECIPITATORS ($1,000)[4]						
53 DESULFURIZATION SYSTEMS ($1,000)						
54 STACKS ($1,000)						
55 ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	3.33	168.30	339.00	17.00	54.00	
56 REVENUES FROM SALE OF ASH ($1,000)						
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]			1,260.00	840.00	1,680.00	
60 TOTAL BYPRODUCT SALES REVENUES ($1,000)						
WATER QUALITY CONTROL DATA						
61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O CANAL	O CANAL	O PACIFIC OCEAN	B SAN DIEGO	B SAN DIEGO	
62 AVERAGE RATE OF WITHDRAWAL (CFS)		152.20	$22.00	235.00	766.00	
63 AVERAGE RATE OF DISCHARGE (CFS)		148.10	$22.00	235.00	766.00	
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]		4.10	4.49	2.02	6.59	
65 PEAK LOAD MONTH : SUMMER - WINTER[8]		AUG DEC	AUG OCT	AUG OCT	AUG OCT	
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		76.00	76.00 70.00	80.00 73.00	86.00 79.00	
67 AT OUTFALL, SUMMER - WINTER		90.00	89.00 92.00	100.00 92.00	112.00 99.00	
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		150.00				
69 - WINTER						
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OTH[8]			C			
71 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.07	.34	.23	.16	.39	
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.03	.08	.24 71.60	.11 .13	.14 66.34	
73 LIME (TONS), COOLING WATER - BOILER MAKEUP		14.23	5.50			
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP						
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.45		40.00	85.00	93.00	
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[15]	YES YES	YES YES		YES YES	YES YES	
77 SEWAGE DISPOSAL: METHOD PS, ST, SW, OTH[8]	ST	ST	PS	PS	PS	
78 RECEIVING WATER BODY		O CESSPOOL				
79 POND DISCHARGE:[16] PH, BOILER BLOWDOWN - ASH SETTLING			9.00			
80 SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			60.00			
81 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
82 - ASH SETTLING						
COOLING FACILITY DATA						
83 NO. OF UNITS AND CAPACITY (MWI USING[17]: ONCE THROUGH COOLING (FRESH)						
84 ONCE THROUGH COOLING (SALINE)			4 636.75	4 247.00	4 713.60	
85 COOLING POND(S)						
86 COOLING TOWER(S)						
87 COMBINATION[17]	3 22.50 1 7.50	2 108.00				
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1941 1949	1952 1954	1954 1972	1943 1952	1960 1971	
89 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[18]	16.00	21.00 23.60	15.71 21.90	16.00	14.00 18.30	
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	116.00	149.80	735.70	332.70	866.30	
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	12.60	149.80	745.60	332.70	922.80	
CAPITAL COSTS OF COOLING FACILITIES						
92 ONCE THROUGH COOLING SYSTEMS ($1,000)		356.92	7,398.00	1,253.00	2,965.00	
93 COOLING PONDS ($1,000)						
94 COOLING TOWERS ($1,000)	295.60	471.33				
ANNUAL COOLING WATER EXPENSES						
95 OPERATION AND MAINTENANCE EXPENSES ($1,000)	1.52		60.20	63.00	186.00	
96 COST OF CHEMICAL ADDITIVES ($1,000)		3.20	5.60	11.30	12.70	
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97 OPERATION AND MAINTENANCE EXPENSES ($1,000)	2.02	29.00	103.30	35.00	65.00	
98 COST OF CHEMICAL ADDITIVES ($1,000)		2.09	11.20	.70	13.70	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	SAN DIEGO GAS & ELECTRIC CO.	SAVANNAH ELECTRIC & POWER CO.	SAVANNAH ELECTRIC & POWER CO.	SEATTLE DEPT OF LIGHTING	NEW ORLEANS SEWAGE & WTR BRD	
4	NAME OF PLANT	STATION B	PORT WENTWORTH	RIVERSIDE	LAKE UNION	POWER HOUSE	
5	UTILITY-PLANT CODE	433500-0700	435500-0100	435500-0200	437000-0600	439500-0100	
6	STATE	CALIFORNIA	GEORGIA	GEORGIA	WASHINGTON	LOUISIANA	
7	COUNTY	SAN DIEGO	CHATHAM	CHATHAM	KING	ORLEANS	
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	029 18	058 03	058 03	229 17	106 08	
9	PLANT CAPACITY (MW)	96.00	333.90	102.00	30.00	41.00	
10	ANNUAL GENERATION (MWH)[3]	76,200	1,558,400	359,200	27,900	66,800	
11	PLANT HEAT RATE 1BTU/KWH)[3]	24,488	10,632	13,708	26,344	27,869	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)		75.40				
13	AVERAGE HEAT CONTENT (BTU/LB)		11,050				
14	AVERAGE SULFUR CONTENT (%)		1.73				
15	AVERAGE ASH CONTENT (%)		18.42				
16	AVERAGE MOISTURE CONTENT (%)		3.43				
17	OIL: CONSUMPTION (1,000 BARRELS)	106.00	1,993.10	207.20	115.60		
18	AVERAGE HEAT CONTENT (BTU/GAL)	149,964	147,899	148,124	151,396		
19	AVERAGE SULFUR CONTENT (%)	.40	2.30	2.30	1.53		
20	GAS: CONSUMPTION (1,000 MCF)	1,137.00	2,396.30	3,532.50		1,773.01	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,054	1,029	1,029		1,050	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	10	4	6	14	6	
23	- NO. OF WET BOTTOM		3				
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS		3				
26	- NO. WITH ELECTROSTATIC PRECIPITATORS						
27	- NO. WITH COMBINATION PRECIPITATORS[4]						
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	10.00	10.00 20.00	10.00 35.00	14.00	20.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		86.10 92.50				
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH		86.10 92.50				
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH						
34	TESTED, LOW - HIGH						
35	EST., LOW - HIGH						
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.02	.72	.03	.02		
40	SULFUR OIOXIOE (1,000 TONS)	.14	17.94	1.60	.59		
41	NITROGEN OXIDES (1,000 TONS)	.46	5.99	1.15	.25	.35	
42	STACKS: - TOTAL NO.	10	4	5	7	2	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	175.00	198.00	175.00 254.00	156.00	168.00 200.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]		.60				
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]		3.30				
46	SOLD (1,000 TONS)[11]						
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF AC1O COLLECTED (1,000 TONS)[12]						
49	ELEMENTAL AND EQUIVALENT OF AC1O SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		161.40				
51	ELECTROSTATIC PRECIPITATORS ($1,000)						
52	COMBINATION PRECIPITATORS ($1,000)[4]						
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	76.00	150.60	95.60			
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		5.44				
56	REVENUES FROM SALE OF ASH ($1,000)						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	420.00	21.39				
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		11.74				

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	B SAN DIEGO	R SAVANNAH	R SAVANNAH	L UNION		
62	AVERAGE RATE OF WITHDRAWAL (CFS)	89.00	274.80	154.00			
63	AVERAGE RATE OF DISCHARGE (CFS)	89.00	274.80	154.00			
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.77	2.36	1.32			
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG OCT	JUL JAN	JUL JAN	OCT		
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	73.00 69.00	86.00 57.00	90.00	68.00		
67	AT OUTFALL, SUMMER - WINTER	92.00 89.00	102.00 73.00	109.00	94.00		
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		12,500.00	12,500.00			
69	- WINTER		12,500.00	12,500.00			
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]						
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	2.22	.16	1.23			
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.07	.01	1.19			
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		52.00	17.33			
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES			
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	ST	PS		OT	
78	RECEIVING WATER BODY		R SAVANNAH				
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING		9.00 6.70				
80	SUSPENDED SOLIDS (PPH), BOILER BLOWDOWN - ASH SETTLING						
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
82	- ASH SETTLING						

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)				3 30.00	3 41.00	
84	ONCE THROUGH COOLING (SALINE)	4 93.00	3 207.00	5 118.50			
85	COOLING PONDS(S)						
86	COOLING TOWERS(S)						
87	COMBINATIONS[21]						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1922 1937	1957 1965	1926 1955	1914 1921		
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	17.50	15.00 18.00	10.00 15.00	27.00	20.00	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	270.90	675.08	331.00	790.00	185.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	270.90	274.93	77.00	790.00		

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,126.00	1,048.70	506.60			
93	COOLING PONDS ($1,000)						
94	COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	36.30	3.20	3.20			
96	COST OF CHEMICAL ADDITIVES ($1,000)		9.60	3.70			

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	61.50	1.60	6.70	.30		
98	COST OF CHEMICAL ADDITIVES ($1,000)	8.65	7.30	1.00			

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	SHELBY MUNICIPAL LT & POWER	SIERRA PACIFIC POWER CO.	SIERRA PACIFIC POWER CO.	SOUTH CAROLINA ELECTRIC & GAS CO.	SOUTH CAROLINA ELECTRIC & GAS CO.	
4	NAME OF PLANT	SHELBY	FORT CHURCHILL	TRACY	CANADYS	HAGOOD	
5	UTILITY-PLANT CODE	441500-0100	443500-0400	443500-1200	447500-0400	447500-0700	
6	STATE	OHIO	NEVADA	NEVADA	SOUTH CAROLINA	SOUTH CAROLINA	
7	COUNTY	RICHLAND	LYON	STOREY	COLLETON	CHARLESTON	
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	175 05	148 16	148 16	058 03	199 03	
9	PLANT CAPACITY (MW)	37.50	220.00	133.00	489.60	97.75	
10	ANNUAL GENERATION (MWH)[3]	67,200	1,472,900	281,100	1,836,500	432,800	
11	PLANT HEAT RATE (BTU/KWH)[3]	16,423	10,321	11,592	10,498	12,807	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	48.00			887.41		
13	AVERAGE HEAT CONTENT (BTU/LB)	11,793			12,407		
14	AVERAGE SULFUR CONTENT (%)	3.12			1.20		
15	AVERAGE ASH CONTENT (%)	15.67			12.68		
16	AVERAGE MOISTURE CONTENT (%)	4.00			5.14		
17	OIL: CONSUMPTION (1,000 BARRELS)	.12	34.00	48.50	22.24	387.35	
18	AVERAGE HEAT CONTENT (BTU/GAL)	138,000	151,287	150,574	137,200	150,021	
19	AVERAGE SULFUR CONTENT (%)	.10	.89	1.06	.10	2.08	
20	GAS: CONSUMPTION (1,000 MCF)	18.37	14,226.50	2,794.50	2,213.01	3,015.96	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,000	1,052	1,052	1,029	1,029	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	4	2	2	3	3	
23	- NO. OF WET BOTTOM				3		
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS	3			3		
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	4			3		
27	- NO. WITH COMBINATION PRECIPITATORS[4]						
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	17.00 20.00	7.00	10.00	22.50	10.00 15.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	80.00 90.00			83.50 84.00		
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH						
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	99.00			99.60		
34	TESTED, LOW - HIGH						
35	EST., LOW - HIGH	99.00			99.60		
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.08	.01	.01	7.02	.08	
40	SULFUR DIOXIDE (1,000 TONS)	2.81	.10	.17	15.70	2.70	
41	NITROGEN OXIDES (1,000 TONS)	.42	2.85	.65	10.49	1.44	
42	STACKS: - TOTAL NO.	1	2	2	3	2	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	225.00	162.00	200.00	200.00	125.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	7.00			85.63	2.62	
46	SOLD (1,000 TONS)[11]					.43	
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				292.19		
51	ELECTROSTATIC PRECIPITATORS ($1,000)	450.00			1,677.04		
52	COMBINATION PRECIPITATORS ($1,000)[4]						
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	10.00	38.00	103.00	263.39	53.74	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	16.00			30.00	.62	
56	REVENUES FROM SALE OF ASH ($1,000)						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	16.00			30.00	.62	
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	M	W	R TRUCKEE	R EDISTO	R ASHLEY	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	.20		34.40	299.38	210.67	
63	AVERAGE RATE OF DISCHARGE (CFS)			34.40	299.38	210.67	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.20				1.81	
65	PEAK LOAD MONTH : SUMMER - WINTER[15]		AUG OEC	AUG OEC	JUL JAN	AUG JAN	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER			70.00 44.00	82.00 53.00	84.20 48.60	
67	AT OUTFALL, SUMMER - WINTER			75.00 49.00	89.00 60.00	100.80 62.60	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER			570.00	2,295.00		
69	- WINTER			1,260.00	4,665.00		
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, O, OT[16]						
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.17	.46		.15	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		35.68	26.10	56.99	9.78	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP				24.15		
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.08	14.31	1.48	1.50		
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]		YES	YES	YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	ST	ST	ST	OT	
78	RECEIVING WATER BODY					R ASHLEY	
79	POND DISCHARGE[19] PH, BOILER BLOWDOWN - ASH SETTLING				5.50 5.50		
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				180.00 180.00		
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN				13,000.00		
82	- ASH SETTLING				31,000.00		

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)			1 53.00			
84	ONCE THROUGH COOLING (SALINE)					3 97.76	
85	COOLING POND(S)		2 220.00				
86	COOLING TOWER(S)	4 37.50			1 215.00		
87	COMBINATION[21]			1 80.00	2 272.00		
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1952	1968 1971	1965	1962 1973	1947 1951	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	15.00	21.00	28.00 38.00	19.00 28.00	19.00	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	11.77	206.00	126.60	498.82	201.32	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)			126.60	499.31	204.99	

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)			118.00	886.00	37.00	
93	COOLING PONDS ($1,000)		989.00	339.00	1,631.25		
94	COOLING TOWERS ($1,000)	66.00			1,917.20		

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)					12.04	
96	COST OF CHEMICAL ADDITIVES ($1,000)		3.90	.40	.49		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)					4.51	
98	COST OF CHEMICAL ADDITIVES ($1,000)	.20	8.80	3.30	29.60		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	SOUTH CAROLINA ELECTRIC & GAS CO.	SOUTH CAROLINA ELECTRIC & GAS CO.	SOUTH CAROLINA ELECTRIC & GAS CO.	SOUTH CAROLINA ELECTRIC & GAS CO.	SOUTH CAROLINA PUBLIC SERVICE AUTH.	
4	NAME OF PLANT	MCMEEKIN	URQUHART	WATEREE	WILLIAMS	GRAINGER	
5	UTILITY-PLANT CODE	447500-0900	447500-1600	447500-1700	447500-1800	448000-0100	
6	STATE	SOUTH CAROLINA	SOUTH CAROLINA	SOUTH CAROLINA	SOUTH CAROLINA	SOUTH CAROLINA	
7	COUNTY	LEXINGTON	AIKEN	RICHLAND	BERKLEY	MORRY	
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	200 03	053 03	200 03	199 03	204 03	
9	PLANT CAPACITY (MW)	275.00	250.00	771.80	585.00	163.20	
10	ANNUAL GENERATION (MWH)[3]	1,786,200	1,477,700	2,876,900	1,327,600	1,061,400	
11	PLANT HEAT RATE (BTU/KWH)[3]	9,483	10,460	10,069	9,742	9,840	
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	558.88	531.97	1,177.73		453.42	
13	AVERAGE HEAT CONTENT (BTU/LB)	12,304	12,378	12,179		11,655	
14	AVERAGE SULFUR CONTENT (%)	1.55	1.69	1.48		1.33	
15	AVERAGE ASH CONTENT (%)	12.44	12.79	12.29		13.51	
16	AVERAGE MOISTURE CONTENT (%)	4.98	5.16	5.63		6.77	
17	OIL: CONSUMPTION (1,000 BARRELS)	1.66	1.24	45.02	2,104.72		
18	AVERAGE HEAT CONTENT (BTU/GAL)	138,397	138,560	138,000	147,899		
19	AVERAGE SULFUR CONTENT (%)	.09	.13	.11	2.00		
20	GAS: CONSUMPTION (1,000 MCF)	3,084.88	2,215.46				
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,030	1,030				
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	2	3	2	1	2	
23	- NO. OF WET BOTTOM	2	3	2		2	
24	- NO. WITH FLY ASH REINJECTION				1		
25	- NO. WITH MECHANICAL PRECIPITATORS		1		1		
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	2	3	2		2	
27	- NO. WITH COMBINATION PRECIPITATORS[4]						
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	22.50	22.50	20.00	15.00	23.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		90.00		85.00		
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH				85.00		
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	99.90	99.60	99.00		95.00	
34	TESTED, LOW - HIGH	99.00	99.12			39.00 50.00	
35	EST., LOW - HIGH	99.90	99.00	99.00			
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.05	.44	.94	.05	22.11	
40	SULFUR DIOXIDE (1,000 TONS)	16.98	17.62	34.18	14.12	11.82	
41	NITROGEN OXIDES (1,000 TONS)	8.99	8.41	17.77	4.64	6.80	
42	STACKS: - TOTAL NO.	2	3	2	1	2	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	250.00	200.00	300.00	400.00	300.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	76.26	64.05	117.77	.14	61.20	
46	SOLD (1,000 TONS)[11]						
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		98.05		354.80		
51	ELECTROSTATIC PRECIPITATORS ($1,000)	962.60	1,196.75	1,357.22		423.00	
52	COMBINATION PRECIPITATORS ($1,000)[4]						
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	137.56	214.18	740.16	868.80	338.00	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	28.00	17.47	19.15		24.00	
56	REVENUES FROM SALE OF ASH ($1,000)						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	28.00	17.47	19.15		24.00	
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L MURRAY	R SAVANNAH	R WATEREE	R BACK	R WACCAMAW	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	244.10	278.03	757.68	581.50	137.00	
63	AVERAGE RATE OF DISCHARGE (CFS)	243.00	277.92	756.18	581.06	137.00	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	2.10 1.10	2.39 .11	1.50	.44		
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	MAY MAR	JUL MAR	AUG JAN	AUG DEC	AUG FEB	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	55.00 47.00	75.00 57.00	79.00 46.00	85.00 57.00	82.00 63.00	
67	AT OUTFALL, SUMMER - WINTER	70.00 63.00	96.00 75.00	84.00 49.00	86.50 61.00	89.00 69.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER		7,810.00	5,378.00		364.00	
69	- WINTER		17,725.00	9,560.00		5,973.00	
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, O, O[16]			C	C		
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS)[1], COOLING WATER - BOILER MAKEUP					.16	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	35.40		760.13	.36	62.00	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	17.70	69.35	42.30	25.00		
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		9.00 2.33	.03 2.33	3.38	10.00	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES YES	YES YES	YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	SW		OT	PS	
78	RECEIVING WATER BODY		R SAVANNAH	R WATEREE	R COOPER		
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	7.20		6.00	6.40 6.40	6.50	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	125.00		120.00	23.00 23.00	80.00	
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN				.59		
82	- ASH SETTLING	6,620.00		82,260.39	689.18	47,000.00	
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	2 293.60	3 250.00				
84	ONCE THROUGH COOLING (SALINE)						
85	COOLING PONDS(S)						
86	COOLING TOWER(S)				1 585.00		
87	COMBINATION[21]			2 771.80		2 163.20	
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1958	1953 1955	1970 - 1971	1973	1966	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	20.00	24.00 26.00	20.00	15.00	19.00	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	252.00	290.70	664.00	716.26	180.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	252.00	294.40	758.00		194.00	
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	140.14	182.36	750.47		1,132.12	
93	COOLING PONDS ($1,000)					300.00	
94	COOLING TOWERS ($1,000)			2,972.70	1,787.43		
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)		2.36	8.00	8.00	41.53	
96	COST OF CHEMICAL ADDITIVES ($1,000)		5.22	4.65		2.59	
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)		16.50	6.00	2.00	15.57	
98	COST OF CHEMICAL ADDITIVES ($1,000)	13.80	12.60	65.09	32.21	7.72	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	SOUTH CAROLINA PUBLIC SERVICE AUTH.	SOUTH MISSISSIPPI ELEC PWR ASSOC	SOUTH TEXAS ELECTRIC COOP	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN CALIFORNIA EDISON CO.	
4	NAME OF PLANT	JEFFERIES	MOSELLE	SAM RAYBURN	ALAMITOS	COOL WATER	
5	UTILITY-PLANT CODE	448000-0200	448300-0100	450000-0500	450500-0100	450500-1400	
6	STATE	SOUTH CAROLINA	MISSISSIPPI	TEXAS	CALIFORNIA	CALIFORNIA	
7	COUNTY	BERKELEY	JONES	VICTORIA	LOS ANGELES	SAN BERNAROINO	
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	199 03	005 03	214 12	026 18	033 18	
9	PLANT CAPACITY (MW)	445.60	177.00	25.00	1,982.40	146.00	
10	ANNUAL GENERATION (MWH)[3]	2,398,100	681,700	187,000	9,318,400	1,112,400	
11	PLANT HEAT RATE (BTU/KWH)[3]	10,019	12,060	12,058	9,666	10,082	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	828.58					
13	AVERAGE HEAT CONTENT (BTU/LB)	11,771					
14	AVERAGE SULFUR CONTENT (%)	.96					
15	AVERAGE ASH CONTENT (%)	13.39					
16	AVERAGE MOISTURE CONTENT (%)	7.38					
17	OIL: CONSUMPTION (1,000 BARRELS)	720.63	784.70	5.60	12,189.00	13.50	
18	AVERAGE HEAT CONTENT (BTU/GAL)	148,007	143,331	136,439	145,000	149,000	
19	AVERAGE SULFUR CONTENT (%)	1.93	2.02	.19	.45	.50	
20	GAS: CONSUMPTION (1,000 MCF)		3,391.30	2,199.87	15,025.00	10,267.70	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,033	1,011	1,049	1,084	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	4	3	1	6	2	
23	- NO. OF WET BOTTOM						
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS	2			1		
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	2					
27	- NO. WITH COMBINATION PRECIPITATORS[4]						
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	13.00 23.00	8.00	10.00	10.00 13.00	5.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00			99.50		
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH	80.00					
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	95.00					
34	TESTED, LOW - HIGH	92.10 94.50					
35	EST., LOW - HIGH						
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	6.35	.13		1.85		
40	SULFUR DIOXIDE (1,000 TONS)	20.26	5.32		18.40	.02	
41	NITROGEN OXIDES (1,000 TONS)	9.05	2.39	.44	29.81	2.03	
42	STACKS: - TOTAL NO.	6	3	1	6	2	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	175.00 300.00	100.00	75.00	200.00 201.50	134.00 146.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	103.00					
46	SOLD (1,000 TONS)[11]						
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	52.00			1,600.00		
51	ELECTROSTATIC PRECIPITATORS ($1,000)	354.00					
52	COMBINATION PRECIPITATORS ($1,000)[4]						
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	632.00		16.70	481.00	11.60	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	38.90					
56	REVENUES FROM SALE OF ASH ($1,000)						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	38.90			120.00	7.20	
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R COOPER	W	R GUADALUPE	O PACIFIC OCEAM	W	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	332.00	3.23	35.60	1,970.00	4.20	
63	AVERAGE RATE OF DISCHARGE (CFS)	332.00	1.14	35.60	1,970.00	1.50	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	2.86	2.09	.31	16.94	2.70	
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG FEB	JUL DEC	JUL JAN	JUN OCT	JUN OCT	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	88.00 52.00	68.00 68.00	80.00 47.00	65.00 58.00		
67	AT OUTFALL, SUMMER - WINTER	104.00 74.00		101.00 69.00			
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	14,876.00		4,262.00	UNLIMITED		
69	- WINTER	28,033.00		1,066.00	UNLIMITED		
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]			C			
T1	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.25	.39	.02	.90	24.79 .04	
T2	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	120.00	.12	.05		75.00	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						
T4	ALUM (TONS), COOLING WATER - BOILER MAKEUP	4.00					
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		1.17			11.86	
T6	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES YES	YES	YES YES	YES YES	
T7	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	OT	OT	ST		ST	
78	RECEIVING WATER BODY	R COOPER	R LEAF		R SAN GABRIEL	O SEEPAGE PIT	
T9	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING			9.00	9.00		
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			378.30	250.00		
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN			136.43	1,220.00		
82	- ASH SETTLING						

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	4 445.60		1 25.00			
84	ONCE THROUGH COOLING (SALINE)				6 1,982.40		
85	COOLING PONDS(S)						
86	COOLING TOWER(S)		3 177.00			2 146.88	
87	COMBINATIONS[21]						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1953 1970	1969	1965	1956 1966	1961 1964	
89	DESIGN: TEMP. ASF ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	13.00 18.00	13.00	12.53	18.20 22.00	14.00	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	550.00	280.80	50.40	1,910.60	191.40	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	550.00		52.60	1,899.40		

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,305.00		288.20	4,693.00		
93	COOLING PONDS ($1,000)						
94	COOLING TOWERS ($1,000)		300.00			641.80	

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	7.40		19.00	80.00	52.40	
96	COST OF CHEMICAL ADDITIVES ($1,000)		6.73		50.00	66.70	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	30.50		4.60	83.00		
98	COST OF CHEMICAL ADDITIVES ($1,000)	17.20	.49	7.80	60.00	6.00	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN CALIFORNIA EDISON CO.
4	NAME OF PLANT	EL SEGUNDO	ETIWANDA	HIGHGROVE	HUNTINGTON BEACH	LONG BEACH
5	UTILITY-PLANT CODE	450500-1500	450500-1600	450500-2000	450500-2100	450500-2700
6	STATE	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA
7	COUNTY	LOS ANGELES	SAN BERNARDINO	SAN BERNARDINO	ORANGE	LOS ANGELES
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[1]	024 18	024 18	024 18	036 18	024 18
9	PLANT CAPACITY (MW)	1,020.00	911.00	169.00	870.40	180.00
10	ANNUAL GENERATION (MWH)[1]	4,830,600	4,698,000	17,400	4,210,000	2,800
11	PLANT HEAT RATE (BTU/KWH)[1]	9,710	9,972	19,115	9,640	13,681

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)					
13	AVERAGE HEAT CONTENT (BTU/LB)					
14	AVERAGE SULFUR CONTENT (%)					
15	AVERAGE ASH CONTENT (%)					
16	AVERAGE MOISTURE CONTENT (%)					
17	OIL: CONSUMPTION (1,000 BARRELS)	7,165.20	6,010.80	28.00	4,904.00	
18	AVERAGE HEAT CONTENT (BTU/GAL)	144,741	144,926	149,256	143,397	
19	AVERAGE SULFUR CONTENT (%)	.47	.45	.43	.41	
20	GAS: CONSUMPTION (1,000 MCF)	3,188.80	9,655.20	155.80	10,462.00	36.80
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,054	1,050	1,049	1,049	1,048

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	4	4	4	4	1
23	- NO. OF WET BOTTOM					
24	- NO. WITH ELY ASH REINJECTION					
25	- NO. WITH MECHANICAL PRECIPITATORS					
26	- NO. WITH ELECTROSTATIC PRECIPITATORS					
27	- NO. WITH COMBINATION PRECIPITATORS[4]					
28	- NO. WITH DESULFURIZATION SYSTEMS					
29	- EXCESS AIR USED (%, LOWEST BOILER - HIGHEST BOILER)[1]	10.00	10.00 16.00	17.00	15.00	15.00
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					
31	TESTED, LOW - HIGH					
32	ESTIMATED, LOW - HIGH					
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[1]: DESIGN, LOW - HIGH					
34	TESTED, LOW - HIGH					
35	EST., LOW - HIGH					
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH					
37	TESTED, LOW - HIGH					
38	ESTIMATED, LOW - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[2]: PARTICULATE MATTER (1,000 TONS)	1.19	.68		.82	
40	SULFUR DIOXIDE (1,000 TONS)	11.17	6.13	.04	6.75	
41	NITROGEN OXIDES (1,000 TONS)	16.24	10.23	.09	12.85	.01
42	STACKS: - TOTAL NO.	4	4	4	2	4
43	- HEIGHT (FEET), LOWEST - HIGHEST[1]	200.00	176.00 199.00	70.00 99.00	203.00	247.50
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[1]					
45	TOTAL ASH: COLLECTED (1,000 TONS)[1]					
46	SOLD (1,000 TONS)[1]					
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[2]					
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)					
51	ELECTROSTATIC PRECIPITATORS ($1,000)					
52	COMBINATION PRECIPITATORS ($1,000)[4]					
53	DESULFURIZATION SYSTEMS ($1,000)					
54	STACKS ($1,000)	223.80	214.00	61.30	169.40	98.60
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)					
56	REVENUES FROM SALE OF ASH ($1,000)					
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)					
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)					
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[1]	71.02	71.52	3.47	60.80	
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)					

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	B SANTA MONICA	M MET. AQUEDUCT	W	O SAN PEDRO CHNL	O PACIFIC OCEAN
62	AVERAGE RATE OF WITHDRAWAL (CFS)	888.00	9.60	.32	T26.00	1.T0
63	AVERAGE RATE OF DISCHARGE (CFS)	888.00	1.70	.07	T26.00	1.T0
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[2]	7.64	7.90	.25	6.24	.01
65	PEAK LOAD MONTH : SUMMER - WINTER[1]	JUN OCT	JUN OCT	JUN OCT	-	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	65.00 64.00			67.00 65.00	
67	AT OUTFALL, SUMMER - WINTER	91.00 86.00			84.00 88.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	UNLIMITED			UNLIMITED	UNLIMITED
69	- WINTER	UNLIMITED			UNLIMITED	UNLIMITED
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[1]					
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.16	.13	1.50 .04	.09	.15
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		.01	.06		.13
73	LIME (TONS), COOLING WATER - BOILER MAKEUP					
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP					
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	137.33	60.00	1.00	10.89	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[4]	YES	YES YES	YES YES	YES YES	YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[1]	PS	ST	ST	PS	ST
78	RECEIVING WATER BODY[1]		O SEEPAGE PIT	O SEEPAGE PIT		O CERRITOS CHANL
79	POND DISCHARGE[2]: PH, BOILER BLOWDOWN - ASH SETTLING	9.50				
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	460.00				
82	- ASH SETTLING					

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[2]: ONCE THROUGH COOLING (FRESH)					
84	ONCE THROUGH COOLING (SALINE)	4 996.50			4 8T0.40	2 180.00
85	COOLING PONDS)					
86	COOLING TOWER(S)		4 911.00	4 169.00		
87	COMBINATION[2]					
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1954 1963	1953 1963	1952 1955	1958 1961	1951
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[2]	22.00 23.65	19.00 21.00	15.50	23.00 24.00	20.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	888.00	8T0.00	266.00	T55.00	712.00
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	888.00			T55.00	712.00

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	563.40			703.00	
93	COOLING PONDS ($1,000)					
94	COOLING TOWERS ($1,000)		1,592.00	866.00		

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	64.23	ST3.00	T.80	106.00	17.00
96	COST OF CHEMICAL ADDITIVES ($1,000)	25.69	80.00	3.30	24.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	89.T8	22.50	15.00	167.00	121.00
98	COST OF CHEMICAL ADDITIVES ($1,000)	18.32	8.00	.20	22.00	3.03

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN CALIFORNIA EDISON CO.	1
4	NAME OF PLANT	MANDALAY	REDONDO	SAN BERNARDINO	SAN ONOFRE	MOHAVE	4
5	UTILITY-PLANT CODE	4SOSOO-3100	4SOSOO-3900	4SOSOO-4100	4SOSOO-4300	4SOSOO-4SOO	5
6	STATE	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA	NEVADA	6
7	COUNTY	VENTURA	LOS ANGELES	SAN BERNARDINO	SAN DIEGO	CLARK	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	024 18	024 18	024 18	029 18	013 16	8
9	PLANT CAPACITY (MW)[3]	435.20	1,579.45	130.56	450.00	1,520.00	9
10	ANNUAL GENERATION (MWH)[3]	2,052,900	6,203,400	837,900	2,266,700	5,625,400	10
11	PLANT HEAT RATE (BTU/KWH)[3]	9,476	10,172	10,174	10,537	11,024	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)					12,288	13
13	AVERAGE HEAT CONTENT (BTU/LB)					.40	14
14	AVERAGE SULFUR CONTENT (%)					9.86	15
15	AVERAGE ASH CONTENT (%)					10.74	16
16	AVERAGE MOISTURE CONTENT (%)						17
17	OIL: CONSUMPTION (1,000 BARRELS)	1,991.00	3,039.58	271.00			18
18	AVERAGE HEAT CONTENT (BTU/GAL)	146,452	144,826	146,812			19
19	AVERAGE SULFUR CONTENT (%)	.46	.30	.47			20
20	GAS: CONSUMPTION (1,000 MCF)	6,776.00	42,032.22	6,519.40		5,256.55	21
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,044	1,057	1,051		1,083	22

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	2	11	2		2	23
23	- NO. OF WET BOTTOM						24
24	- NO. WITH FLY ASH REINJECTION						25
25	- NO. WITH MECHANICAL PRECIPITATORS						26
26	- NO. WITH ELECTROSTATIC PRECIPITATORS					2	27
27	- NO. WITH COMBINATION PRECIPITATORS[4]						28
28	- NO. WITH DESULFURIZATION SYSTEMS						29
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	4.00	10.00 12.50	4.75		18.00	30
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						31
31	TESTED, LOW - HIGH						32
32	ESTIMATED, LOW - HIGH					98.60	33
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH					99.00 99.80	34
34	TESTED, LOW - HIGH						35
35	EST., LOW - HIGH						36
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						37
37	TESTED, LOW - HIGH						38
38	ESTIMATED, LOW - HIGH						39

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.33	.51	.05		1.54	40
40	SULFUR DIOXIDE (1,000 TONS)	3.07	3.06	.43		25.56	41
41	NITROGEN OXIDES (1,000 TONS)	5.71	14.69	1.87		30.37	42
42	STACKS: - TOTAL NO.	1	8	2		1	43
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	200.00 200.00	201.50	130.00		500.00	44
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]		.02				45
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]					455.66	46
46	SOLD (1,000 TONS)[11]					7.93	47
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						48
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						49
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						50
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						51
51	ELECTROSTATIC PRECIPITATORS ($1,000)						52
52	COMBINATION PRECIPITATORS ($1,000)[4]						53
53	DESULFURIZATION SYSTEMS ($1,000)						54
54	STACKS ($1,000)	92.00	563.30	10.68		388.02	55
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)					31.37	56
56	REVENUES FROM SALE OF ASH ($1,000)						57
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						58
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						59
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[12]	35.42	94.90	8.81		644.46	60
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)					31.37	61

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O SNTA BARB CHNL	O PACIFIC OCEAN	W	O PACIFIC OCEAN	R COLORADO	62
62	AVERAGE RATE OF WITHDRAWAL (CFS)	343.00	1,530.74	2.55	793.27	16.41	63
63	AVERAGE RATE OF DISCHARGE (CFS)	343.00	1,530.74	1.05	793.00		64
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	2.95	13.16	1.50	6.02 .27	16.41	65
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUN OCT	JUN OCT	JUN OCT	JUN OCT	JUN OCT	66
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	70.00 66.00	64.00 60.00		64.00 63.00		67
67	AT OUTFALL, SUMMER - WINTER	91.00 88.00	83.00 78.00		84.00 83.00		68
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	UNLIMITED	UNLIMITED		UNLIMITED		69
69	- WINTER	UNLIMITED	UNLIMITED		UNLIMITED		70
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]						71
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.16	.58	39.16 .05	1.27		72
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.01	48.11				73
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						74
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						75
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	107.20	34.08	7.18	25.19		76
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES YES	YES	YES	YES		77
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[16]	ST	PS	ST	OT		78
78	RECEIVING WATER BODY	O SEEPAGE PIT			O PACIFIC OCEAN		79
79	POND DISCHARGE:[16] PH, BOILER BLOWDOWN - ASH SETTLING		7.50				80
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						81
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						82
82	- ASH SETTLING						83

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[17]: ONCE THROUGH COOLING (FRESH)						84
84	ONCE THROUGH COOLING (SALINE)	2 435.20	8 1,579.45		1 450.00		85
85	COOLING POND(S)						86
86	COOLING TOWER(S)			2 130.56		2 1,510.00	87
87	COMBINATION[21]						88
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1959	1948 196T	1957 1958	1966	1970	89
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	23.00	20.00 22.00	16.10	18.00	25.40	90
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	384.00	1,735.20	173.00	T93.00	1,204.00	91
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	394.00	1,733.00		793.00		92

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	1,216.00	8,164.00		6,847.00		93
93	COOLING PONDS ($1,000)						94
94	COOLING TOWERS ($1,000)			369.00			95

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	110.00	T9.T0	6.65	130.82	263.37	96
96	COST OF CHEMICAL ADDITIVES ($1,000)	6.19	12.40	31.14	8.21	21.00	97

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	36.00	351.60	22.34	283.45	565.00	98
98	COST OF CHEMICAL ADDITIVES ($1,000)	9.21	39.90	1.12	.57	134.35	99

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	1	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN ELECTRIC GENERATING CO.	SOUTHERN ILLINOIS POWER COOP.	SOUTHERN INDIANA G. E. CO.	SOUTHERN INDIANA G. E. CO.	1
2		2						2
3		3						3
4	NAME OF PLANT	4	ORMOND BEACH	GASTON	MARION	CULLEY	OHIO RIVER	4
5	UTILITY-PLANT CODE	5	450500-4700	451000-0100	451500-0100	452000-0100	452000-0300	5
6	STATE	6	CALIFORNIA	ALABAMA	ILLINOIS	INDIANA	INDIANA	6
7	COUNTY	7	VENTURA	SHELBY	WILLIAMSON	WARRICK	VANDERBURGH	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	8	024 18	004 03	074 05	077 05	077 05	8
9	PLANT CAPACITY (MW)	9	1,612.80	1,060.80	99.00	414.93	121.50	9
10	ANNUAL GENERATION (MWH)[3]	10	4,890,300	6,744,900	609,400	1,604,000	173,100	10
11	PLANT HEAT RATE (BTU/KWH)[3]	11	9,607	9,522	12,000	10,498	14,448	11
	AIR QUALITY CONTROL DATA							
	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12		2,732.10	344.05	783.72		12
13	AVERAGE HEAT CONTENT (BTU/LB)	13		11,744	10,770	10,756		13
14	AVERAGE SULFUR CONTENT (%)	14		1.17	4.17	3.72		14
15	AVERAGE ASH CONTENT (%)	15		14.40	14.81	11.46		15
16	AVERAGE MOISTURE CONTENT (%)	16		6.90	9.23	13.14		16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	6,327.00	11.10	.61	.80	61.80	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	146,241	136,500	138,000	137,500	144,240	18
19	AVERAGE SULFUR CONTENT (%)	19	.47	.20	.10	.10	.12	19
20	GAS: CONSUMPTION (1,000 MCF)	20	10,822.00			92.10	2,182.20	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,053			1,012	1,012	21
	PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	22	2	4	3	3	8	22
23	- NO. OF WET BOTTOM	23			3	2		23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25			3	1	4	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26		3		1		26
27	- NO. WITH COMBINATION PRECIPITATORS[4]	27		1		1		27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	29	8.0 9.00	23.00	10.00	20.00 26.00	5.00 6.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30			69.00	85.00	76.00	30
31	TESTED, LOW - HIGH	31			74.00 79.00			31
32	ESTIMATED, LOW - HIGH	32			70.00	85.00		32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	33		95.00 99.00		97.60 99.00		33
34	TESTED, LOW - HIGH	34		99.60				34
35	EST., LOW - HIGH	35		75.00 99.00		99.70		35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	39	.60	57.85	1.53	3.21		39
40	SULFUR DIOXIDE (1,000 TONS)	40	5.64	62.66	28.12	57.14	.02	40
41	NITROGEN OXIDES (1,000 TONS)	41	9.07	24.61	9.46	9.50	.43	41
42	STACKS: - TOTAL NO.	42	2	4	2	3	3	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	43	237.00	250.00	210.00	249.00 499.50	250.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	44						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	45		339.00	48.12	89.10		45
46	SOLD (1,000 TONS)[11]	46		28.10				46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50				74.00	39.00	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51				1,550.00		51
52	COMBINATION PRECIPITATORS ($1,000)[4]	52				799.00		52
53	DESULFURIZATION SYSTEMS ($1,000)	53						53
54	STACKS ($1,000)	54	474.00	642.00	89.82	989.00	153.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55		445.60	124.10	80.00		55
56	REVENUES FROM SALE OF ASH ($1,000)	56		5.60				56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	59		445.60	224.09	80.00		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60		5.60				60
	WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	O PACIFIC OCEAN	R COOSA	R LITTLE SALINE	R OHIO	R OHIO	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	1,060.00	1,066.00	150.40	496.20	200.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	1,060.00	1,066.00	120.60	496.20	200.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	64	9.12	9.17	29.80	4.27	1.72	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	65	JUN OCT	JUL OEC	JUN JAN	JUL OEC	AUG NOV	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	64.00 64.00	87.00 64.00	78.00 47.70	86.00 56.00	82.00 52.00	66
67	AT OUTFALL, SUMMER - WINTER	67	86.00 83.00	96.00 83.00	94.00 65.00	106.00 81.00	92.00 69.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	UNLIMITED	10,699.00	155.00	47,000.00	47,000.00	68
69	- WINTER	69	UNLIMITED	19,020.00	104.00	222,000.00	114,000.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, O, ON[16]	70	C		C	C		70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71			.03	.40	1.00	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	750.50		.20	48.35	.03	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73		4.00	1.00	6.25	1.50	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74		21.00	2.00	.90		74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	26.00	2.18	12.00 .30	9.00	4.00	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	76	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	77		ST/OT	ST	ST	PS	77
78	RECEIVING WATER BODY	78		R COOSA	R LITTLE SALINE	R OHIO		78
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	79		10.20	6.00 6.00	11.20 11.00	11.00 9.00	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80		5.00	13.00 26.00	90.00 550.00	500.00 300.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81			691.20	536.85	7.80	81
82	- ASH SETTLING	82		315,000.00	82,000.00		7.00	82
	COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	83		4 1,000.00		3 414.93	7 121.50	83
84	ONCE THROUGH COOLING (SALINE)	84	2 1,612.80					84
85	COOLING POND(S)	85			3 99.00			85
86	COOLING TOWER(S)	86						86
87	COMBINATION[21]	87						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1971	1960 1962	1960	1955 1973	1928 1950	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	89	30.00	12.98 14.47	11.60	13.30 20.30	15.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	1,060.00	1,286.00	24.00	513.59	686.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	1,060.00	1,420.00		540.40	345.00	91
	CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92	10,896.00	5,898.00		688.00	154.00	92
93	COOLING PONDS ($1,000)	93			3,115.00			93
94	COOLING TOWERS ($1,000)	94						94
	ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95	17.90	34.30	25.24	45.00	40.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96	11.66		1.68	3.60	2.00	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97	210.80	81.20	22.00	22.00	10.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	16.94	56.50	.60	17.00	2.00	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	SOUTHERN INDIANA G. E. CO.	SOUTHWEST PUBLIC SERVICE CO.	SOUTHWEST PUBLIC SERVICE CO.	SOUTHWEST PUBLIC SERVICE CO.	SOUTHWEST PUBLIC SERVICE CO.	
4	NAME OF PLANT	WARRICK	CARLSBAD	CUNNINGHAM	DENVER CITY	EAST PLANT	
5	UTILITY-PLANT CODE	452000-0500	453000-0200	453000-0400	453000-0500	453000-0600	
6	STATE	INDIANA	NEW MEXICO	NEW MEXICO	TEXAS	TEXAS	
7	COUNTY	WARRICK	EDDY	LEA	YOAKUM	POTTER	
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	077 05	155 13	153 13	218 12	211 11	
9	PLANT CAPACITY (MW)	732.00	44.30	265.40	80.00	71.00	
10	ANNUAL GENERATION (MWH)[3]	2,150,500	124,000	1,764,000	601,200	415,300	
11	PLANT HEAT RATE (BTU/KWH)[3]	25,231	14,249	10,061	12,608	14,967	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	2,441.90					
13	AVERAGE HEAT CONTENT (BTU/LB)	11,193					
14	AVERAGE SULFUR CONTENT (%)	3.41					
15	AVERAGE ASH CONTENT (%)	9.89					
16	AVERAGE MOISTURE CONTENT (%)	12.39					
17	OIL: CONSUMPTION (1,000 BARRELS)	2.00	5.06			5.90	
18	AVERAGE HEAT CONTENT (BTU/GAL)	140,000	138,000			138,000	
19	AVERAGE SULFUR CONTENT (%)	.10	.72			.72	
20	GAS: CONSUMPTION (1,000 MCF)	6.60	1,731.00	17,749.00	7,241.00	6,729.00	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,000	1,000	1,000	1,051	918	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	4	5	2	4	7	
23	- NO. OF WET BOTTOM						
24	- NO. WITH FLY ASH REINJECTION						
25	- NO. WITH MECHANICAL PRECIPITATORS	3					
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	1					
27	- NO. WITH COMBINATION PRECIPITATORS[4]						
28	- NO. WITH DESULFURIZATION SYSTEMS						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	18.00 20.00	10.00	10.00	10.00	2.50 5.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	84.00					
31	TESTED, LOW - HIGH						
32	ESTIMATED, LOW - HIGH	84.00					
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	98.00					
34	TESTED, LOW - HIGH						
35	EST., LOW - HIGH	98.00					
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37	TESTED, LOW - HIGH						
38	ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	21.18					
40	SULFUR OIOXIDE (1,000 TONS)	163.21	.01			.01	
41	NITROGEN OXIDES (1,000 TONS)	21.98	.35	3.46	1.41	1.33	
42	STACKS: - TOTAL NO.	3	5	2	6	5	
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	400.00 499.50	53.00	136.00 146.00	57.00 96.00	50.00 80.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	219.20					
46	SOLD (1,000 TONS)[11]						
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	259.00					
51	ELECTROSTATIC PRECIPITATORS ($1,000)	723.00					
52	COMBINATION PRECIPITATORS ($1,000)[4]						
53	DESULFURIZATION SYSTEMS ($1,000)						
54	STACKS ($1,000)	1,544.00	9.35	36.60	22.60	13.00	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	210.00					
56	REVENUES FROM SALE OF ASH ($1,000)						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	210.00					
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R OHIO	R PECOS	W	W	W	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	728.00	51.40	4.42	2.81	1.79	
63	AVERAGE RATE OF DISCHARGE (CFS)	728.00	51.40	.89	.99	.36	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	0.26	.40	3.53	1.82	1.43	
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG DEC	AUG FEB				
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	86.00 54.00	73.00 56.00				
67	AT OUTFALL, SUMMER - WINTER	110.00 80.00	78.00 62.00				
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	47,000.00	8.00				
69	- WINTER	222,000.00	70.00				
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OT[16]						
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP			.43	.16	.32	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP				.02	.18	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP			7.10	12.50		
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	64.00	1.18	6.75	2.94	3.74	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]		YES	YES	YES	YES YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	OT	PS	ST	ST	PS	
78	RECEIVING WATER BODY	R OHIO					
79	POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	9.00					
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
82	- ASH SETTLING	136,000.00					

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	4 732.00					
84	ONCE THROUGH COOLING (SALINE)						
85	COOLING PONDS						
86	COOLING TOWERS			2 265.40	4 87.50	5 71.00	
87	COMBINATION[21]		3 44.30				
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1958 1970	1930 1949	1957 1965	1942 1955	1942 1951	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	17.40 23.60	12.08 13.00	15.00	13.00 15.00	15.00	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	755.00	131.50	355.50	216.60	219.60	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	755.00					

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	3,821.00					
93	COOLING PONDS ($1,000)						
94	COOLING TOWERS ($1,000)		396.60	1,421.40	717.00	530.80	

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	7.00	47.40	14.90	32.00	20.10	
96	COST OF CHEMICAL ADDITIVES ($1,000)	11.00	.20	23.40	13.90	11.80	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)		24.20	17.80	20.30	18.10	
98	COST OF CHEMICAL ADDITIVES ($1,000)		1.30	.80	1.40	.70	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	SOUTHWEST PUBLIC SERVICE CO.	SOUTHWEST PUBLIC SERVICE CO.	SOUTHWEST PUBLIC SERVICE CO.	SOUTHWEST PUBLIC SERVICE CO.	SOUTHWEST PUBLIC SERVICE CO.	
NAME OF PLANT	MOORE	NICHOLS	PLANT X	RIVERVIEW	ROSWELL	
UTILITY-PLANT CODE	453000-1000	453000-1100	453000-1300	453000-1400	453000-1500	
STATE	TEXAS	TEXAS	TEXAS	TEXAS	NEW MEXICO	
COUNTY	MOORE	POTTER	LAMB	HUTCHINSON	CHAVES	
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	[illegible] 11	[illegible] 11	[illegible] 11	[illegible] 12	[illegible] 13	
PLANT CAPACITY (MW)	68.20	474.TT	434.40	34.50	24.20	
ANNUAL GENERATION (MWH) 3/	259,000	1,956,400	2,014,300	281,600	85,000	
PLANT HEAT RATE (BTU/KWH) 3/	12,449	10,118	10,567	13,015	14,377	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT (%)						
OIL: CONSUMPTION (1,000 BARRELS)			39.20		2.60	
AVERAGE HEAT CONTENT (BTU/GAL)			138,000		138,000	
AVERAGE SULFUR CONTENT (%)			.T2		.48	
GAS: CONSUMPTION (1,000 MCF)	3,154.00	19,618.00	21,057.00	2,339.00	1,207.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,020	1,008	1,000	1,112	1,000	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	3	4	9	3
- NO. OF WET BOTTOM					
- NO. WITH FLY ASH REINJECTION					
- NO. WITH MECHANICAL PRECIPITATORS					
- NO. WITH ELECTROSTATIC PRECIPITATORS					
- NO. WITH COMBINATION PRECIPITATORS 4/					
- NO. WITH DESULFURIZATION SYSTEMS					
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	10.00	10.00	10.00	10.00	10.00
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					
TESTED, LOW - HIGH					
ESTIMATED, LOW - HIGH					
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH					
TESTED, LOW - HIGH					
EST., LOW - HIGH					
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH					
TESTED, LOW - HIGH					
ESTIMATED, LOW - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)			.01		
SULFUR DIOXIDE (1,000 TONS)			.09		
NITROGEN OXIDES 11,000 TONS)	.62	3.83	4.19	.46	.24
STACKS: - TOTAL NO.	2	3	6	5	3
- HEIGHT (FEET), LOWEST - HIGHEST 8/	[illegible] 97.00	160.00	[illegible] 153.00	80.00	[illegible] 59.50
COMBUSTION CYCLE ADDITIVES 11,000 TONS) 9/					
TOTAL ASH: COLLECTED (1,000 TONS) 10/					
SOLD (1,000 TONS) 11/					
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/					
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)					
ELECTROSTATIC PRECIPITATORS ($1,000)					
COMBINATION PRECIPITATORS ($1,000) 4/					
DESULFURIZATION SYSTEMS ($1,000)					
STACKS ($1,000)	10.98	61.00	61.18	17.30	9.60
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)					
REVENUES FROM SALE OF ASH ($1,000)					
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)					
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)					
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/					
TOTAL BYPRODUCT SALES REVENUES ($1,000)					

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	O SEWAGE EFFLNT.	W	M	W
AVERAGE RATE OF WITHDRAWAL (CFS)	.8T	5.53	6.26	.89	.45
AVERAGE RATE OF DISCHARGE (CFS)	.1T	1.10	2.50	.18	.25
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	.T0	4.43	3.T6	.71	.20
PEAK LOAD MONTH : SUMMER - WINTER 15/					
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER					
AT OUTFALL, SUMMER - WINTER					
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER					
- WINTER					
FREQUENCY OF TEMPERATURE MONITORING: C, M, O, OT 16/					
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP					
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.22	.50	.86	.06	.46
LIME (TONS), COOLING WATER - BOILER MAKEUP	.02	13.50	243.66	1.24	.03
ALUM (TONS), COOLING WATER - BOILER MAKEUP		3,792.95		24.31	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	1.71 T.93	28.57 93.40	20.64	1.20	.40
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES YES	YES YES	YES YES	YES YES	YES YES
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	ST	ST	ST	ST	PS
RECEIVING WATER BODY					
POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING					
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING					

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING: 20/ ONCE THROUGH COOLING (FRESH)					
ONCE THROUGH COOLING (SALINE)					
COOLING POND(S)					
COOLING TOWER(S)	2 68.20	3 474.70	4 434.00	1 34.50	2 24.20
COMBINATION(S) 21/					
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1950 1954	1960 1968	1952 1964	194T	1947 1950
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	15.00 18.00	15.00	15.00	15.00	11.00 14.00
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	163.00	626.50	648.80	64.00	70.90
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)					

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)					
COOLING PONDS ($1,000)					
COOLING TOWERS ($1,000)	T06.10	2,679.50	2,T84.10	307.40	193.60

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	32.70	14T.30	T0.20	23.10	35.60	
COST OF CHEMICAL ADDITIVES ($1,000)	5.80	76.00	55.30	4.40	2.70	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	19.T0	32.60	34.30	21.70	13.00	
COST OF CHEMICAL ADDITIVES ($1,000)	.60	2.80	26.70	1.60	1.50	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	SOUTHWEST PUBLIC SERVICE CO.	SOUTHWESTERN ELECTRIC POWER CO.	SOUTHWESTERN ELECTRIC POWER CO.	SOUTHWESTERN ELECTRIC POWER CO.	SOUTHWESTERN ELECTRIC POWER CO.	
NAME OF PLANT	JONES	ARSENAL HILL	KNOX LEE	LIEBERMAN	LONE STAR	
UTILITY-PLANT CODE	4S3000-1T00	4S4000-0100	4S4000-0200	4S4000-0300	4S4000-0400	
STATE	TEXAS	LOUISIANA	TEXAS	LOUISIANA	TEXAS	
COUNTY	LUBBOCK	CADDO	GREGG	CADDO	NORRIS	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	211 12	022 11	022 12	022 11	022 11	
PLANT CAPACITY (MW)	247.50	170.00	193.00	277.00	50.00	
ANNUAL GENERATION (MWH)[3]	1,143,500	333,300	978,700	985,000	212,000	
PLANT HEAT RATE (BTU/KWH)[3]	10,149	11,564	12,140	10,307	11,871	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT (%)						
OIL: CONSUMPTION (1,000 BARRELS)	4.50			18.38		
AVERAGE HEAT CONTENT (BTU/GAL)	138,000			146,000		
AVERAGE SULFUR CONTENT (%)	.72			.40		
GAS: CONSUMPTION (1,000 MCF)	11,464.00	3,592.00	11,503.00	9,548.00	2,406.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,011	1,073	1,033	1,052	1,046	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	1	9	4	4	1	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	10.00	7.00 15.00	7.00 8.00	15.00 17.00	7.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)						
SULFUR OXIDE (1,000 TONS)	.01	.70	2.24	.02 1.90	.47	
NITROGEN OXIDES (1,000 TONS)	2.25		4	5	1	
STACKS: - TOTAL NO.	1	4				
- HEIGHT (FEET), LOWEST - HIGHEST[8]	171.00	273.00	100.00 130.00	125.00 140.00	140.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]						
SOLD (1,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	32.00	70.70	44.00	41.00	13.94	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]						
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O SEWAGE EFFLNT.	N	L CHEROKEE	L CADDO	O ELLISON CR RES	
AVERAGE RATE OF WITHDRAWAL (CFS)	4.14	173.00	391.00	258.00	122.00	
AVERAGE RATE OF DISCHARGE (CFS)	.83	173.00	391.00	258.00	122.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	3.31					
PEAK LOAD MONTH : SUMMER - WINTER[15]		AUG OEC	AUG OEC	AUG OEC	AUG OEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		93.00	90.00 66.00	94.00 62.00	90.00 62.00	
AT OUTFALL, SUMMER - WINTER		102.00	106.00 79.00	110.00 72.00	102.00 75.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						
- WINTER						
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.22					
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	27.54	19.10		19.11		
LIME (TONS), COOLING WATER - BOILER MAKEUP	1,134.26					
ALUM (TONS), COOLING WATER - BOILER MAKEUP	109.44					
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	3.40 .75		3.00	3.98	1.13	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES		YES		
SEWAGE DISPOSAL: METHODS, ST, SW, OT[18]	ST	PS	ST	ST	OT	
RECEIVING WATER BODY						
POND DISCHARGE[19] PH, BOILER BLOWDOWN - ASH SETTLING						
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)						
ONCE THROUGH COOLING (SALINE)						
COOLING PONDS		5 170.00	4 186.00	4 277.20	1 50.00	
COOLING TOWERS	1 247.50					
COMBINATION[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1971	1960	1950 1956	1947 1959	1953	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	14.70	10.00 18.00	8.40 15.80	12.00 18.00	14.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	311.10	468.00	435.00	416.00	122.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)						

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)						
COOLING PONDS ($1,000)		187.80		123.70		
COOLING TOWERS ($1,000)	2,291.00					

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	150.30	2.30	2.50	1.00	1.00	
COST OF CHEMICAL ADDITIVES ($1,000)	48.10	.20	.69	1.10	.30	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	18.40	3.10	3.00	1.00	1.50	
COST OF CHEMICAL ADDITIVES ($1,000)	4.10	1.20		2.20		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	SOUTHWESTERN ELECTRIC POWER CO.	SPRINGFIELD WATER LIGHT & POWER DEPT.	SPRINGFIELD WATER LIGHT & POWER DEPT.	ST. JOSEPH LIGHT & POWER CO.	ST. JOSEPH LIGHT & POWER CO.
2						
3						
4	NAME OF PLANT	WILKES	GALLMAN	LAKESIDE	EDMOND	LAKEROAD
5	UTILITY-PLANT CODE	454000-0500	457000-0100	457000-0200	460000-0100	460000-0200
6	STATE	TEXAS	ILLINOIS	ILLINOIS	MISSOURI	MISSOURI
7	COUNTY	MARION	SANGAMON	SANGAMON	BUCHANAN	BUCHANAN
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	022 11	075 07	075 07	094 10	094 10
9	PLANT CAPACITY (MW)	879.00	160.00	146.00	42.50	150.50
10	ANNUAL GENERATION (MWH) [3]	4,811,500	1,142,121	304,164	94,400	936,300
11	PLANT HEAT RATE (BTU/KWH) [3]	9,961	8,686	13,965	19,696	13,501

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)		459.00	196.80		66.23
13	AVERAGE HEAT CONTENT (BTU/LB)		10,791	10,578		10,345
14	AVERAGE SULFUR CONTENT (%)		3.83	3.91		3.43
15	AVERAGE ASH CONTENT (%)		11.59	12.39		11.92
16	AVERAGE MOISTURE CONTENT (%)		12.92	13.56		15.70
17	OIL: CONSUMPTION (1,000 BARRELS)	.82	2.50	3.99	32.49	31.66
18	AVERAGE HEAT CONTENT (BTU/GAL)	146,000	136,000	136,000	150,770	150,182
19	AVERAGE SULFUR CONTENT (%)	.40	.30	.30	2.01	1.97
20	GAS: CONSUMPTION (1,000 MCF)	49,579.00			1,713.47	11,496.36
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	966			965	963

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	3	2	8	5	6		
23	- NO. OF WET BOTTON		2	2		1		
24	- NO. WITH FLY ASH REINJECTION							
25	- NO. WITH MECHANICAL PRECIPITATORS		1	4	2	3		
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		2	4				
27	- NO. WITH COMBINATION PRECIPITATORS [4]							
28	- NO. WITH DESULFURIZATION SYSTEMS							
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]							
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	6.00 7.00	15.00	15.00 20.00	10.00 33.00	10.00 25.00		
31	TESTED, LOW - HIGH		82.00		93.00	70.00 85.70		
32	ESTIMATED, LOW - HIGH					57.70 86.80		
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [5]: DESIGN, LOW - HIGH				93.00			
34	TESTED, LOW - HIGH		97.50	97.50				
35	EST., LOW - HIGH			93.00				
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH			98.60 98.80				
37	TESTED, LOW - HIGH							
38	ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)		.56	.20		.78		
40	SULFUR OIOXIOE II,000 TONS)		34.46	15.07	.22	4.66		
41	NITROGEN OXIOES (1,000 TONS)	9.67	12.62	4.34	.41	3.68		
42	STACKS: - TOTAL NO.	4	2	9	3	6		
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	151.00 162.00	300.00	125.00 300.00	75.00 189.00	92.00 225.00		
44	COMBUSTION CYCLE ADDITIVES II,000 TONS) [9]							
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]		52.90	24.50		6.92		
46	SOLD (1,000 TONS) [11]							
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD II,000 TONS)							
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		125.00	39.80	23.20	176.10		
51	ELECTROSTATIC PRECIPITATORS ($1,000)		223.50	1,036.40				
52	COMBINATION PRECIPITATORS I$1,000) [4]							
53	DESULFURIZATION SYSTEMS ($1,000)							
54	STACKS ($1,000)	297.00	644.00	640.00	145.89	270.60		
55	ASH COLLECTION AND DISPOSAL EXPENSES I$1,000)		87.40	49.60		6.20		
56	REVENUES FROM SALE OF ASH ($1,000)							
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES I$1,000)							
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
59	TOTAL AIR QUALITY CONTROL EXPENSES I$1,000) [13]		99.40	61.60		6.20		
60	TOTAL BYPRODUCT SALES REVENUES I$1,000)							

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O JOHNSON CR RES	L SPRINGFIELD	L SPRINGFIELD	R MISSOURI	R MISSOURI		
62	AVERAGE RATE OF WITHDRAWAL (CFS)	1,572.00	196.12	90.04	29.90	85.20		
63	AVERAGE RATE OF DISCHARGE (CFS)	1,572.00	196.12	90.04	29.90	85.20		
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]		1.89	.77	.26	.73		
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG DEC	AUG DEC	AUG DEC	JUL JAN	JUL JAM		
66	MAX. TEMP. DURING PEAK MONTH IOEG. F.): AT DIVERSION, SUMMER - WINTER	99.00 78.00	88.00 53.00	92.00 54.00	85.00 32.50	85.00 32.50		
67	AT OUTFALL, SUMMER - WINTER	123.00 102.00	104.00 76.00	100.00 78.00	106.00 47.50	102.00 90.50		
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER				59,287.00	55,597.00		
69	- WINTER				42,250.00	42,250.00		
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, O, O [16]	M						
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.27	.51	5.75	8.30 .49		
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	48.06		6.80	.10	.20		
73	LIME (TONS), COOLING WATER - BOILER MAKEUP				33.20	197.53		
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP							
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	20.00			.45	.19		
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES YES		
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	ST	PS	PS	PS	OT		
78	RECEIVING WATER BODY							
79	POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING		9.00	9.00				
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		4.00	4.00				
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING		23,028.00	44,500.00				
82								

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)		2 170.25	7 155.00	3 42.50	1 90.00		
84	ONCE THROUGH COOLING (SALINE)							
85	COOLING PONDS)							
86	COOLING TOWERS)							
87	COMBINATIONS [21]					3 60.50		
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	3 881.50						
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	1964 1968	1972 1935	1965 1920	1949 1951	1967		
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	21.00 787.00	15.00 274.00	13.65 14.11 339.00	12.00 13.00 129.23	12.20 18.30 269.30		
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		468.00	481.00	129.30	114.60		

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)		258.00	510.00	175.00	580.10		
93	COOLING PONDS ($1,000)	1,112.00						
94	COOLING TOWERS I$1,000)	944.00				218.70		

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	6.00	36.40	45.80	8.19	5.89		
96	COST OF CHEMICAL ADDITIVES ($1,000)	4.60	.30	.10	.17	23.61		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	10.00	12.60	14.20	6.74	90.36		
98	COST OF CHEMICAL ADDITIVES I$1,000)	6.05	.90	2.40	6.92	18.76		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	SUNFLOWER ELEC COOP	TACOMA DEPT OF PUBLIC UTILS	TALLAHASSEE, CITY OF	TALLAHASSEE, CITY OF	TAMPA ELECTRIC CO.	
NAME OF PLANT	GARDEN CITY	TACOMA #2	PURDOM	HOPKINS	GANNON	
UTILITY-PLANT CODE	470250-0200	473000-0800	473500-0100	473500-0300	474000-0100	
STATE	KANSAS	WASHINGTON	FLORIDA	FLORIDA	FLORIDA	
COUNTY	FINNEY	PIERCE	WAKULLA	LEON	HILLSBOROUGH	
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	100 11	229 17	049 03	049 03	052 03	
PLANT CAPACITY (MW)	110.40	59.00	130.00	75.00	1,270.38	
ANNUAL GENERATION (MWH) 3/	235,110	63,500	525,700	379,700	4,880,300	
PLANT HEAT RATE (BTU/KWH) 3/	14,419	14,747	12,524	11,002	10,342	
AIR QUALITY CONTROL DATA						
FUEL CONSUMPTION DATA (ANNUAL)						
COAL: CONSUMPTION (1,000 TONS)					2,246.30	
AVERAGE HEAT CONTENT (BTU/LB)					11,235	
AVERAGE SULFUR CONTENT (%)					3.12	
AVERAGE ASH CONTENT (%)					11.22	
AVERAGE MOISTURE CONTENT (%)					10.77	
OIL: CONSUMPTION (1,000 BARRELS)		146.20	440.11	84.32		
AVERAGE HEAT CONTENT (BTU/GAL)		152,419	150,880	150,880		
AVERAGE SULFUR CONTENT (%)		1.66	1.90	1.90		
GAS: CONSUMPTION (1,000 MCF)	3,602.60		3,497.73	3,370.19		
AVERAGE HEAT CONTENT (BTU/CU.FT.)	940		1,085	1,081		
PLANT EQUIPMENT DATA						
BOILERS: - TOTAL NO.	5	2	7	1	6	
- NO. OF WET BOTTOM					6	
- NO. WITH FLY ASH REINJECTION					6	
- NO. WITH MECHANICAL PRECIPITATORS		2				
- NO. WITH ELECTROSTATIC PRECIPITATORS					6	
- NO. WITH COMBINATION PRECIPITATORS 4/						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	1.00 3.00	13.00	10.00 15.00	7.00	13.00 16.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH					90.00 98.50	
TESTED, LOW - HIGH					80.20 97.20	
EST., LOW - HIGH					80.00 98.00	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
PLANT OPERATING DATA AND COST OF EQUIPMENT						
EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)		.02	.07	.01	9.11	
SULFUR DIOXIDE (1,000 TONS)		.81	2.81	.54	137.37	
NITROGEN OXIDES (1,000 TONS)	.61	.32	1.65	.84	46.89	
STACKS: - TOTAL NO.	5	2	6	1	7	
- HEIGHT (FEET), LOWEST - HIGHEST 8/	82.00 114.00	138.00	86.00 180.00	200.00	200.00 306.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						
TOTAL ASH: COLLECTED (1,000 TONS) 10/					359.80	
SOLD (1,000 TONS) 11/					204.10	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)					1,434.00	
COMBINATION PRECIPITATORS ($1,000) 4/						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)		30.00	90.00		288.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)					200.60	
REVENUES FROM SALE OF ASH ($1,000)					270.07	
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/					205.60	
TOTAL BYPRODUCT SALES REVENUES ($1,000)					269.07	
WATER QUALITY CONTROL DATA						
COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	W	O HYLEBOS WTRWY	R ST. MARKS	W	B TAMPA	
AVERAGE RATE OF WITHDRAWAL (CFS)	8.60	28.98	206.94	1.53	1,961.00	
AVERAGE RATE OF DISCHARGE (CFS)	8.50	28.98	206.94	.59	1,961.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	.10	.23	1.78	.94	16.86	
PEAK LOAD MONTH : SUMMER - WINTER 15/	JUL OEC	JUL JAN	JUL JAN	JUL JAN	JUL OEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	75.00 65.00	88.00 48.00	80.00 71.00		98.80 75.00	
AT OUTFALL, SUMMER - WINTER	75.00 65.00	88.00 53.00	88.00 86.00		103.00 76.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	11.90		326.00			
- WINTER	7.70		325.00			
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OT 16/		C				
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.11	.42	.18	10.45	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	20.75	.27	.45		815.38	
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	1.14		7.45	6.00	150.48	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/		SW	ST	ST	OT	
RECEIVING WATER BODY	O FIELD LATERALS	O HYLEBOS WTRWY			B TAMPA	
POND DISCHARGE? 18/: PH, BOILER BLOWDOWN - ASH SETTLING						
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING						
COOLING FACILITY DATA						
NO. OF UNITS AND CAPACITY (MW) USING 19/: ONCE THROUGH COOLING (FRESH)	2 11.00		7 118.00			
ONCE THROUGH COOLING (SALINE)		2 59.00			6 1,270.38	
COOLING PONDS						
COOLING TOWERS	2 99.40			1 80.00		
COMBINATIONS 20/						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1947 1973	1931	1952 1966	1971	1957 1967	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 21/	15.00		13.00 15.00	17.00	12.00 16.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	176.00	131.00	286.40	124.80	1,961.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	25.80	131.00	367.00		1,961.00	
CAPITAL COSTS OF COOLING FACILITIES						
ONCE THROUGH COOLING SYSTEMS ($1,000)		103.00	750.00		4,164.00	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)	296.00			397.40		
ANNUAL COOLING WATER EXPENSES						
OPERATION AND MAINTENANCE EXPENSES ($1,000)	7.33	4.00	3.20	7.70	44.80	
COST OF CHEMICAL ADDITIVES ($1,000)	15.38		.90	7.40	14.00	
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
OPERATION AND MAINTENANCE EXPENSES ($1,000)	3.82	6.00	8.00	1.00	134.10	
COST OF CHEMICAL ADDITIVES ($1,000)	4.15	.32	9.20	6.70	55.70	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	TAMPA ELECTRIC CO.	TAMPA ELECTRIC CO.	TAUNTON MUNICIPAL LIGHTING PLT.	TAUNTON MUNICIPAL LIGHTING PLT.	TENNESSEE VALLEY AUTHORITY
4	NAME OF PLANT	HOOKERS POINT	BIG BEND	CLEARY	TAUNTON	ALLEN
5	UTILITY-PLANT CODE	474000-0200	474000-0300	475000-0100	475000-0200	477000-0100
6	STATE	FLORIDA	FLORIDA	MASSACHUSETTS	MASSACHUSETTS	TENNESSEE
7	COUNTY	HILLSBOROUGH	HILLSBOROUGH	BRISTOL	BRISTOL	SHELBY
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	052 03	052 03	01	01	08
9	PLANT CAPACITY (MW)	232.60	891.00	28.30	46.00	990.00
10	ANNUAL GENERATION (MWH)[3]	966,000	3,701,600	126,600	95,400	4,974,900
11	PLANT HEAT RATE (BTU/KWH)[3]	12,950	10,218	11,175	21,666	9,620

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)		1,702.00			1,634.90
13	AVERAGE HEAT CONTENT (BTU/LB)		11,131			11,058
14	AVERAGE SULFUR CONTENT (%)		3.46			3.12
15	AVERAGE ASH CONTENT (%)		11.41			11.48
16	AVERAGE MOISTURE CONTENT (%)		11.08			11.81
17	OIL: CONSUMPTION (1,000 BARRELS)	2,002.80		230.19	335.93	2.10
18	AVERAGE HEAT CONTENT (BTU/GAL)	148,720		146,461	146,398	139,000
19	AVERAGE SULFUR CONTENT (%)	1.88		.88	.88	.40
20	GAS: CONSUMPTION (1,000 MCF)					11,159.24
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)					1,056

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	6	2	2	7	3
23	- NO. OF WET BOTTOM		2			3
24	- NO. WITH FLY ASH REINJECTION		2			
25	- NO. WITH MECHANICAL PRECIPITATORS				1	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		2			3
27	- NO. WITH COMBINATION PRECIPITATORS[4]					
28	- NO. WITH DESULFURIZATION SYSTEMS					
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	13.00 20.00	15.00	15.00	15.00	13.00
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					
31	TESTED, LOW - HIGH					
32	ESTIMATED, LOW - HIGH				80.00	
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH		99.78			99.00
34	TESTED, LOW - HIGH		98.40			97.50
35	EST., LOW - HIGH		99.80			97.50
36	DESULFURIZATION SYSTEN EFFICIENCY : DESIGN, LOW - HIGH					
37	TESTED, LOW - HIGH					
38	ESTIMATED, LOW - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.34	2.78	.04	.04	.47
40	SULFUR DIOXIDE (1,000 TONS)	12.63	115.42	.68	.99	99.95
41	NITROGEN OXIDES (1,000 TONS)	4.42	25.53	.51	.74	47.12
42	STACKS: - TOTAL NO.	4	1	2	4	3
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	150.00 173.00	490.00	125.00 129.83	250.00	400.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	111.60			.05	
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]		360.10		.02	186.20
46	SOLD (1,000 TONS)[11]		286.80			50.00
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]					
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)					
51	ELECTROSTATIC PRECIPITATORS ($1,000)		540.00			8,298.00
52	COMBINATION PRECIPITATORS ($1,000)[4]					
53	DESULFURIZATION SYSTEMS ($1,000)					
54	STACKS ($1,000)	184.00	612.00	22.00	157.00	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	2.50	297.70	3.90	12.00	189.00
56	REVENUES FROM SALE OF ASH ($1,000)		327.23			
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)					
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)					
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	15.40	307.10	3.90	12.00	189.00
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		327.23			20.00

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	S TAMPA	S HILLSBOROUGH	R TAUNTON	R TAUNTON	R MISSISSIPPI
62	AVERAGE RATE OF WITHDRAWAL (CFS)	390.00	535.00	38.00	93.00	711.00
63	AVERAGE RATE OF DISCHARGE (CFS)	390.00	535.00	38.00	93.00	710.00
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]				6.11	1.00
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL DEC	JUL DEC	JUL DEC	JUL DEC	JUL JAN
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	89.00 72.00	70.00	87.00 33.00	88.00 38.00	84.00 45.00
67	AT OUTFALL, SUMMER - WINTER	89.00	81.00	45.00	48.00	67.00
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER					
69	- WINTER			58.00	93.00	849,000.00
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OTH[16]		H			
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	2.35	.76	.19	.95	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	4.45	294.43	.15	3.03	33.58
73	LIME (TONS), COOLING WATER - BOILER MAKEUP					
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP					
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP					
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OTH[18]	PS	OT	ST	PS	PS
78	RECEIVING WATER BODY		S HILLSBOROUGH	O LEACHING FIELD		
79	POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING		7.30			7.50
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		35.00			28.00
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING					39,000.00
82						

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)					3 990.00
84	ONCE THROUGH COOLING (SALINE)	5 232.60	1 450.00	1 28.00	5 44.00	
85	COOLING POND(S)					
86	COOLING TOWER(S)					
87	COMBINATION[20]		1 445.50			
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1948 1955	1970 1973	1966	1958 1959	1959
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[21]	10.48 18.10	16.00	20.00	20.00	20.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	390.40	1,070.00	55.80	94.60	768.60
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	327.40	537.00	55.80	94.60	848.88

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	2,561.00	1,200.00	250.00	515.00	
93	COOLING PONDS ($1,000)					
94	COOLING TOWERS ($1,000)					

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	16.60	30.10	17.50	24.00	35.00
96	COST OF CHEMICAL ADDITIVES ($1,000)	4.30	12.10	3.50	4.00	4.00

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	17.00	32.10	40.00	36.00	9.00
98	COST OF CHEMICAL ADDITIVES ($1,000)	4.20	26.20	.50	1.50	12.00

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	1
2							2
3							3
4	NAME OF PLANT	BULL RUN	COLBERT A	COLBERT B	GALLATIN	SEVIER	4
5	UTILITY-PLANT CODE	477000-0500	477000-0900	477000-0905	477000-1400	477000-1800	5
6	STATE	TENNESSEE	ALABAMA	ALABAMA	TENNESSEE	TENNESSEE	6
7	COUNTY	ANDERSON	COLBERT	COLBERT	SUMNER	MAWKINS	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	207 06	007 06	007 06	208 05	207 06	8
9	PLANT CAPACITY (MW)	950.00	846.50	550.00	1,255.20	846.50	9
10	ANNUAL GENERATION (MWH)[3]	5,492,507	4,338,037	2,535,947	7,057,624	4,354,866	10
11	PLANT HEAT RATE (BTU/KWH)[3]	9,030	9,860	9,830	9,510	9,470	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	2,230.90	1,932.00	1,101.20	3,107.20	1,798.20	12
13	AVERAGE HEAT CONTENT (BTU/LB)	11,171	11,116	11,254	10,749	11,517	13
14	AVERAGE SULFUR CONTENT (%)	.85	3.98	4.11	3.35	1.88	14
15	AVERAGE ASH CONTENT (%)	15.31	15.03	15.02	16.25	15.10	15
16	AVERAGE MOISTURE CONTENT (%)	7.62	8.32	7.56	9.31	6.51	16
17	OIL: CONSUMPTION (1,000 BARRELS)	37.03	5.47	5.46	7.77	3.52	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	138,100	139,100	139,300	137,700	137,800	18
19	AVERAGE SULFUR CONTENT (%)	.40	.20	.20	.20	.20	19
20	GAS: CONSUMPTION (1,000 MCF)						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)						21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	1	4	1	4	4	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS		3		2	4	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	1	3	1		2	26
27	- NO. WITH COMBINATION PRECIPITATORS[4]		1		4		27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	20.00	20.00	20.00	20.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		85.00		72.00 84.00	85.00	30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH					50.00	32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	99.00	97.00 98.50	90.00	98.60 99.20	98.50	33
34	TESTED, LOW - HIGH	81.00	99.00	80.00	91.20 95.00	99.20 99.30	34
35	EST., LOW - HIGH	81.00	99.00	50.00	90.00 92.00	99.20	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	55.16	1.89	53.76	39.27	31.41	39
40	SULFUR DIOXIDE (1,000 TONS)	37.22	150.71	88.71	204.02	46.87	40
41	NITROGEN OXIDES (1,000 TONS)	20.16	14.49	8.26	27.96	11.45	41
42	STACKS: - TOTAL NO.	1	4	1	2	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	800.00	300.00	500.00	500.00	350.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	.30	.60				44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	289.60	289.20	99.30	485.60	202.70	45
46	SOLD (1,000 TONS)[11]		26.00		17.20		46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		239.70		229.00	282.40	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	1,701.00	5,947.50	744.00		6,538.80	51
52	COMBINATION PRECIPITATORS ($1,000)[4]		2,429.90		5,524.00		52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	1,224.00	524.00	427.00	715.00	372.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	188.00	393.00	159.00	424.00	552.00	55
56	REVENUES FROM SALE OF ASH ($1,000)		5.00		20.50		56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	188.00	393.00	159.00	424.00	552.00	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		5.00		20.60		60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R CLINCH	R TENNESSEE	R TENNESSEE	R CUMBERLAND	R HOLSTON	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	685.00	1,189.00	490.00	1,265.00	853.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	684.00	1,183.00	487.00	1,247.00	848.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	5.89 1.00	10.23 6.00	4.21 3.00	10.88 18.00	7.34 5.00	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL JAN	JUL JAN	JUL JAN	JUL JAN	JUL JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	60.00 47.00	85.00 48.00	85.00 48.00	70.00 50.00	78.00 49.00	66
67	AT OUTFALL, SUMMER - WINTER	79.00 66.00	98.00 61.00	98.00 61.00	86.00 66.00	93.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	4,400.00	47,000.00	47,000.00	28,000.00	3,900.00	68
69	- WINTER	7,300.00	107,000.00	107,000.00	33,000.00	5,200.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.82		6.80	.66	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	55.54	46.12	101.49	.20	138.90	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP		11.49	5.66	24.80	13.80	74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		.30	.15	.45	91.00 .45	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	DT	ST	ST	OT	ST	77
78	RECEIVING WATER BODY	R CLINCH	R TENNESSEE	R TENNESSEE	R CUMBERLAND	R HOLSTON	78
79	POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING	6.90	11.90		9.50	8.40	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	110.00	107.00		24.00	50.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING	49,000.00	342,000.00		635,000.00	195,000.00	82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	1 950.00	4 846.50	1 550.00	4 1,255.20	4 823.25	83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING PONDS						85
86	COOLING TOWERS						86
87	COMBINATION[21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1966	1954 1955	1962	1956 1959	1955 1957	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	17.90	13.20	14.40	11.30 15.60	17.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	885.60	1,270.00	654.00	1,320.00	1,011.60	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	950.76	1,354.64	695.14	1,417.00	1,105.08	91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	2,042.00	2,688.00	1,694.00	2,924.00	3,528.00	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)						94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	13.00	48.00	28.00	15.00	33.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)			8.25		11.00	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	12.00	56.00	43.00	67.00	73.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	7.00	9.00	13.00	8.00	10.00	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY		
4	NAME OF PLANT	JOHNSONVILLE	KINGSTON	PARADISE	SHAWNEE	WATTS BAR		
5	UTILITY-PLANT CODE	477000-1900	477000-2100	477000-3000	477000-5200	477000-5600		
6	STATE	TENNESSEE	TENNESSEE	KENTUCKY	KENTUCKY	ALABAMA		
7	COUNTY	HUMPHREYS	ROANE	MUHLENBERG	MCCRACKEN	RHEA		
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	208 06	207 06	072 05	072 05	207 06		
9	PLANT CAPACITY (MW)	1,485.20	1,700.00	2,558.20	1,750.00	240.00		
10	ANNUAL GENERATION (MWH) [3]	6,967,279	9,578,700	14,196,844	9,659,142	955,180		
11	PLANT HEAT RATE (BTU/KWH) [3]	10,510	9,700	9,495	9,920	12,314		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	3,338.40	4,337.10	6,550.30	4,388.30	516.60		
13	AVERAGE HEAT CONTENT (BTU/LB)	10,970	10,688	10,268	10,500	11,142		
14	AVERAGE SULFUR CONTENT (%)	5.63	2.21	4.18	2.87	5.75		
15	AVERAGE ASH CONTENT (%)	14.28	20.35	18.86	15.51	15.82		
16	AVERAGE MOISTURE CONTENT (%)	9.61	6.56	9.15	11.09	7.82		
17	OIL: CONSUMPTION (1,000 BARRELS)	11.09	25.01	44.75	17.98	1.10		
18	AVERAGE HEAT CONTENT (BTU/GAL)	157,500	157,200	156,600	137,500	158,000		
19	AVERAGE SULFUR CONTENT (%)	.14	.40	.20	.20	.20		
20	GAS: CONSUMPTION (1,000 MCF)							
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)							

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	10	9	3	10	4		
23	- NO. OF WET BOTTOM			3				
24	- NO. WITH FLY ASH REINJECTION							
25	- NO. WITH MECHANICAL PRECIPITATORS	10			4			
26	- NO. WITH ELECTROSTATIC PRECIPITATORS			3		4		
27	- NO. WITH COMBINATION PRECIPITATORS [4]		9		10			
28	- NO. WITH DESULFURIZATION SYSTEMS							
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	18.00 20.00	18.00 20.00	18.00 20.00	20.00	20.00		
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00 86.00			85.00			
31	TESTED, LOW - HIGH	58.00 81.00						
32	ESTIMATED, LOW - HIGH	50.00 70.00						
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH		99.30	98.00	98.50	95.00		
34	TESTED, LOW - HIGH		80.00 91.50	98.00	94.00	95.00		
35	EST., LOW - HIGH		80.00 85.00	98.20 99.30	95.00 96.50	95.00		
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
37	TESTED, LOW - HIGH							
38	ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	141.26	125.47	1.65	19.79	2.62		
40	SULFUR DIOXIDE (1,000 TONS)	237.52	187.87	556.65	258.10	57.97		
41	NITROGEN OXIDES (1,000 TONS)	27.89	39.03	180.13	54.41	5.87		
42	STACKS: - TOTAL NO.	8	9	3	10	2		
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	270.00 400.00	250.00 500.00	600.00 800.00	250.00	147.00		
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]				4.20			
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	319.70	828.50	1,216.20	688.80	78.60		
46	SOLD (1,000 TONS) [11]		25.50	45.90				
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]							
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	751.00			577.20			
51	ELECTROSTATIC PRECIPITATORS ($1,000)			6,698.00		1,666.00		
52	COMBINATION PRECIPITATORS ($1,000) [4]		2,409.00		8,050.60			
53	DESULFURIZATION SYSTEMS ($1,000)							
54	STACKS ($1,000)	360.00	1,098.00	962.00	1,830.00	30.00		
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	283.00	547.00	1,834.00	421.00	170.00		
56	REVENUES FROM SALE OF ASH ($1,000)		51.00					
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	283.00	547.00	1,834.00	421.00	170.00		
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)		51.00	18.00				

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R TENNESSEE	R CLINCH	R GREEN	R OHIO	R TENNESSEE		
62	AVERAGE RATE OF WITHDRAWAL (CFS)	2,086.00	1,956.00	868.00	2,281.00	396.00		
63	AVERAGE RATE OF DISCHARGE (CFS)	2,073.00	1,956.00	839.00	2,254.00	591.00		
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	17.94 13.00	16.82 20.00	29.00	19.82 27.00	3.41 5.00		
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	JUL JAN	JUL JAN	JUL JAN	JUL JAN	JUL JAN		
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	88.00 48.00	73.00 46.00	78.00 48.00	82.00 45.00	80.00 52.00		
67	AT OUTFALL, SUMMER - WINTER	101.00 61.00	87.00 60.00	105.00 75.00	94.00 55.00	90.00 62.00		
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	57,000.00	6,700.00	8,800.00	231,000.00	29,000.00		
69	- WINTER	129,000.00	11,800.00	15,900.00	458,000.00	48,000.00		
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O [16]							
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	3.50	3.75		6.55	1.57		
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	1.50	.60	56.47				
73	LIME (TONS), COOLING WATER - BOILER MAKEUP							
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	26.00	22.55		25.62	8.55		
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		45.56 1.64	55.35	52.00 .94			
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES YES	YES	YES YES	YES		
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [16]	ST	ST	OT	S7	ST		
78	RECEIVING WATER BODY [16]	R TENNESSEE	R EMORY		R OHIO	R TENNESSEE		
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	10.80	4.10	6.80	11.40	9.30		
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	50.00	19.00	270.00	75.00	46.00		
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							
82	- ASH SETTLING	487,000.00	732,000.00	132,000.00	950,000.00	172,071.91		

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING [24]: ONCE THROUGH COOLING (FRESH)	10 1,485.20	9 1,700.00		10 1,750.00	4 240.00		
84	ONCE THROUGH COOLING (SALINE)							
85	COOLING POND(S)							
86	COOLING TOWER(S)			1 1,150.20				
87	COMBINATION [21]			2 1,408.00				
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1951 1959	1954 1955	1965 1969	1953 1956	1942 1945		
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	12.40 15.30	15.20 15.50	28.00 28.00	12.30	6.90		
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	2,293.00	2,154.50	1,654.80	2,597.00	625.60		
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	2,486.48	2,525.83	1,144.86	2,495.40			

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	5,082.00	5,157.00	2,890.00	9,730.00	652.00		
93	COOLING PONDS ($1,000)							
94	COOLING TOWERS ($1,000)							

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	34.00	41.00	147.00	124.00	20.00		
96	COST OF CHEMICAL ADDITIVES ($1,000)		4.00	5.00	6.00			

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	90.00	95.00	25.00	120.00	12.00		
98	COST OF CHEMICAL ADDITIVES ($1,000)	12.00	8.00	15.00	11.00	2.00		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	TEXAS ELECTRIC SERVICE CO.	TEXAS ELECTRIC SERVICE CO.	1
2							2
3							3
4	NAME OF PLANT	WIDOWS CREEK A	WIDOWS CREEK 8	CUMBERLAND	EAGLE MOUNTAIN	GRAHAM	4
5	UT&LITY-PLANT CODE	477000-3800	477000-3805	477000-4100	478000-0100	478000-0200	5
6	STATE	ALABAMA	ALABAMA	TENNESSEE	TEXAS	TEXAS	6
7	COUNTY	JACKSON	JACKSON	STEWART	TARRANT	YOUNG	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	007 06	007 06	208 05	215 12	210 12	8
9	PLANT CAPACITY (MW)	852.98	1,125.01	2,600.00	706.15	634.78	9
10	ANNUAL GENERATION (MWH)[3]	4,016,500	4,987,246	8,548,938	1,499,700	2,592,000	10
11	PLANT HEAT RATE (BTU/KWH)[3]	10,790	9,660	9,860	11,860	10,160	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	1,983.80	2,118.80	3,912.60			12
13	AVERAGE HEAT CONTENT (BTU/LB)	11,134	11,234	10,536			13
14	AVERAGE SULFUR CONTENT (%)	2.96	3.90	3.65			14
15	AVERAGE ASH CONTENT (%)	17.24	15.01	16.27			15
16	AVERAGE MOISTURE CONTENT (%)	6.94	7.57	10.21			16
17	OIL: CONSUMPTION (1,000 BARRELS)	15.54	14.62	106.56	33.80	13.50	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	138,700	137,800	137,588	142,857	142,857	18
19	AVERAGE SULFUR CONTENT (%)	.10	.10	.17	.60	.60	19
20	GAS: CONSUMPTION (1,000 MCF)				17,152.00	25,628.00	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)				1,025	1,024	21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	6	2	2	3	2	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION						24
25	- NO. WITH MECHANICAL PRECIPITATORS	6					25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		2	2			26
27	- NO. WITH COMBINATION PRECIPITATORS[4]						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]						29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	20.00	20.00	20.00	7.00 10.00	6.50 8.00	30
31	TESTED, LOW - HIGH	85.00					31
32	ESTIMATED, LOW - HIGH	70.00					32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	60.00	90.00	99.00			33
34	TESTED, LOW - HIGH		50.00 99.00	99.06 99.10			34
35	EST., LOW - HIGH		50.00 97.00	99.00			35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	88.92	57.01	5.41	.01		39
40	SULFUR DIOXIDE (1,000 TONS)	115.09	161.96	279.91	.07	.03	40
41	NITROGEN OXIDES (1,000 TONS)	14.88	19.07	35.21	3.42	5.03	41
42	STACKS: - TOTAL NO.	6	2	2	2	3	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	270.00	500.00	1,000.00	213.00 225.00	163.00 177.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]		.10				44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	232.50	263.80	631.50			45
46	SOLD (1,000 TONS)[11]						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	553.20					50
51	ELECTROSTATIC PRECIPITATORS ($1,000)		1,737.00	7,775.00			51
52	COMBINATION PRECIPITATORS ($1,000)[4]						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	192.00	684.00	7,792.50	66.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	273.00	619.00	496.00			55
56	REVENUES FROM SALE OF ASH ($1,000)						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	273.00	619.00	496.00			59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER SOURCE(S) (USE CODES G, L, R, E, S, M & O EXPL. IN FOOTNOTES)	R TENNESSEE	R TENNESSEE	R CUMBERLAND	L EAGLE MOUNTAIN	L EDDLEMAN	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	1,234.00	800.00	2,170.00	407.41	637.20	62
63	AVERAGE RATE OF DISCHARGE (CFS)	1,224.00	785.00	2,163.00	405.39	632.10	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	10.61 10.00	6.88 15.00	18.66 7.00	2.02	5.10	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL JAN	JUL JAN	JUL JAN		AUG DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	81.00 52.00	81.00 52.00	74.00 51.00	88.00 61.00	85.00 60.00	66
67	AT OUTFALL, SUMMER - WINTER	96.00 67.00	96.00 67.00	86.00 63.00	102.00 84.00	95.00 68.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	42,000.00	42,000.00	31,000.00			68
69	- WINTER	73,000.00	73,000.00	50,000.00			69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]			C			70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	2.03	.01		1.89	.30	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	14.13	7.07	616.50	16.77	87.63	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP				25.75	36.00	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	21.04	16.40	6.15			74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.90	.55	.80	10.00	40.00	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES YES	YES YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]			OT	OT	PS	77
78	RECEIVING WATER BODY	O ASH POND	O ASH POND	R CUMBERLAND	L EAGLE MOUNTAIN		78
79	POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	10.40		10.30			79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	24.00		41.00			80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						81
82	- ASH SETTLING	976,000.00		16,236.00			82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING ONCE THROUGH COOLING (FRESH)	6 853.00	2 1,125.01	2 2,600.00			83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING POND(S)				3 706.20	2 634.78	85
86	COOLING TOWER(S)						86
87	COMBINATION[21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1952 1954	1960 1964	1972 1973	1932	1960 1969	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	11.60 12.20	18.30 20.90	11.70	21.10 28.00	14.00 20.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,371.00	1,062.80	3,600.00	648.20	753.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,425.94	1,149.70	4,224.00			91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	2,706.00	2,620.00				92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)						94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	98.00	33.00	19.00			95
96	COST OF CHEMICAL ADDITIVES ($1,000)		.05	2.00	1.40	4.10	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	46.00	86.00	36.00		15.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	10.00	10.00	82.00	6.70	12.80	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	TEXAS ELECTRIC SERVICE CO.	TEXAS ELECTRIC SERVICE CO.	TEXAS ELECTRIC SERVICE CO.	TEXAS ELECTRIC SERVICE CO.	TEXAS ELECTRIC SERVICE CO.
2						
3						
4	NAME OF PLANT	MANDLEY	MORGAN CREEK	NORTH MAIN	PERMIAN BASIN	WICHITA FALLS
5	UTILITY-PLANT CODE	478000-0300	478000-0400	478000-0500	478000-0600	478000-0700
6	STATE	TEXAS	TEXAS	TEXAS	TEXAS	TEXAS
7	COUNTY	TARRANT	MITCHELL	TARRANT	WARD	WICHITA
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	215 12	210 12	218 12	218 13	219 11
9	PLANT CAPACITY (MW)	523.35	848.03	116.25	701.59	25.00
10	ANNUAL GENERATION (MWH) 3/	2,470,500	4,247,200	282,900	1,010,200	4,500
11	PLANT HEAT RATE (BTU/KWH) 3/	10,270	10,340	13,540	11,730	15,503

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)					
13	AVERAGE HEAT CONTENT (BTU/LB)					
14	AVERAGE SULFUR CONTENT (%)					
15	AVERAGE ASH CONTENT (%)					
16	AVERAGE MOISTURE CONTENT (%)					
17	OIL: CONSUMPTION (1,000 BARRELS)	25.90	113.80	27.70	25.40	
18	AVERAGE HEAT CONTENT (BTU/GAL)	142,857	142,857	142,857	142,857	
19	AVERAGE SULFUR CONTENT (%)	.60	.80	.80	.80	
20	GAS: CONSUMPTION (1,000 MCF)	24,608.00	41,905.00	3,577.00	10,894.00	68.00
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,025	1,032	1,024	1,074	1,057

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	4	6	8	6	2
23	- NO. OF WET BOTTOM					
24	- NO. WITH FLY ASH REINJECTION					
25	- NO. WITH MECHANICAL PRECIPITATORS					
26	- NO. WITH ELECTROSTATIC PRECIPITATORS					
27	- NO. WITH COMBINATION PRECIPITATORS 4/					
28	- NO. WITH DESULFURIZATION SYSTEMS					
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	0.00 14.50	8.00 20.00	10.00	0.00 12.00	12.00
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					
31	TESTED, LOW - HIGH					
32	ESTIMATED, LOW - HIGH					
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH					
34	TESTED, LOW - HIGH					
35	EST., LOW - HIGH					
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH					
37	TESTED, LOW - HIGH					
38	ESTIMATED, LOW - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)		.02			
40	SULFUR DIOXIDE (1,000 TONS)	.05	.31	.07	.07	
41	NITROGEN OXIDES (1,000 TONS)	4.86	8.42	.76	2.16	.01
42	STACKS: - TOTAL NO.	4	6	3	5	1
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	185.00 184.00	180.00 182.00	256.00 321.00	180.00 200.00	150.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/					
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/					
46	SOLD (1,000 TONS) 11/					
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/					
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)					
51	ELECTROSTATIC PRECIPITATORS ($1,000)					
52	COMBINATION PRECIPITATORS ($1,000) 4/					
53	DESULFURIZATION SYSTEMS ($1,000)					
54	STACKS ($1,000)	158.00	88.06	109.00	143.80	17.00
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)					
56	REVENUES FROM SALE OF ASH ($1,000)					
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)					
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)					
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/					
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)					

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L ARLINGTON	L COLORADO CITY	R TRINITY	W	L WICHITA
62	AVERAGE RATE OF WITHDRAWAL (CFS)	470.80	927.20	1.06	3.80	.49
63	AVERAGE RATE OF DISCHARGE (CFS)	467.90	919.00	.26	.60	.47
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	2.90	8.20	.80	3.20	.02
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	AUG DEC		AUG DEC	AUG DEC	AUG DEC
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	89.50 63.00		83.76 51.70	60.00	
67	AT OUTFALL, SUMMER - WINTER	100.00 86.00		97.00 57.20	85.00	
68	AVE. FLOW (IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER					
69	- WINTER					
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O 16/				C	
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.56	2.00	2.65	0.70 1.00	.02 .01
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	1.20	122.57			
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		85.00	218.25		
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP					
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	24.00		15.00	24.00	.30
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES		YES	YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	PS	ST	PS	ST	PS
78	RECEIVING WATER BODY					
79	POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING				7.20	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				25.00	
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN					
82	- ASH SETTLING					

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)					
84	ONCE THROUGH COOLING (SALINE)					
85	COOLING POND(S)	3 523.35	6 845.76	2 35.00		
86	COOLING TOWER(S)			1 81.25	6 700.50	2 25.00
87	COMBINATION 21/					
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1957 1962	1950 1966	1918 1952	1948 1973	1948 1949
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	16.00 17.00		13.00 19.00	20.00 22.50	16.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	755.00	1,100.10	211.70	759.60	59.60
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)					

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)					
93	COOLING PONDS ($1,000)					
94	COOLING TOWERS ($1,000)			277.00	1,626.60	98.00

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)					
96	COST OF CHEMICAL ADDITIVES ($1,000)	5.04	2.47	13.20	21.80	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)					
98	COST OF CHEMICAL ADDITIVES ($1,000)	4.50	30.39	2.30	71.10	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1 NAME OF UTILITY	TEXAS POWER & LIGHT CO.	TEXAS POWER & LIGHT CO.	TEXAS POWER & LIGHT CO.	TEXAS POWER & LIGHT CO.	TEXAS POWER & LIGHT CO.	
4 NAME OF PLANT	BIG BROWN	COLLIN	LAKE CREEK	RIVER CREST	STRYKER	
5 UTILITY-PLANT CODE	478500-0250	478500-0300	478500-0500	478500-0600	478500-0700	
6 STATE	TEXAS	TEXAS	TEXAS	TEXAS	TEXAS	
7 COUNTY	FREESTONE	COLLIN	MCLENNAN	REO RIVER	CHEROKEE	
8 AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	212 19	215 12	212 12	022 11	022 12	
9 PLANT CAPACITY (MW)	1,186.80	156.25	315.63	112.50	703.48	
10 ANNUAL GENERATION (MWH)[3]	6,654,400	652,600	1,912,800	123,500	3,064,000	
11 PLANT HEAT RATE (BTU/KWH)[3]	10,118	10,498	10,534	12,772	10,144	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)	4,731.20					
13 AVERAGE HEAT CONTENT (BTU/LB)	7,000					
14 AVERAGE SULFUR CONTENT (%)	.60					
15 AVERAGE ASH CONTENT (%)	10.40					
16 AVERAGE MOISTURE CONTENT (%)	30.80					
17 OIL: CONSUMPTION (1,000 BARRELS)		80.16	25.22	154.35	60.14	
18 AVERAGE HEAT CONTENT (BTU/GAL)		147,833	150,059	150,060	148,966	
19 AVERAGE SULFUR CONTENT (%)		.50	.50	.60	.50	
20 GAS: CONSUMPTION (1,000 MCF)	1,027.00	6,526.05	19,796.51	578.28	30,020.68	
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,062	973	1,010	1,045	1,022	

PLANT EQUIPMENT DATA

22 BOILERS: - TOTAL NO.	2	1	2	1	2	
23 - NO. OF WET BOTTOM						
24 - NO. WITH FLY ASH REINJECTION						
25 - NO. WITH MECHANICAL PRECIPITATORS						
26 - NO. WITH ELECTROSTATIC PRECIPITATORS	2					
27 - NO. WITH COMBINATION PRECIPITATORS[4]						
28 - NO. WITH DESULFURIZATION SYSTEMS						
29 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	8.00	8.00 10.00	8.00	8.00	
30 MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
31 TESTED, LOW - HIGH						
32 ESTIMATED, LOW - HIGH						
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	97.30					
34 TESTED, LOW - HIGH	97.50 97.90					
35 EST., LOW - HIGH						
36 DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
37 TESTED, LOW - HIGH						
38 ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	9.62	.01		.03	.01	
40 SULFUR DIOXIDE (1,000 TONS)	55.64	.13	.04	.31	.10	
41 NITROGEN OXIDES (1,000 TONS)	42.78	1.45	3.92	.45	5.99	
42 STACKS: - TOTAL NO.	2	2	3	2	4	
43 - HEIGHT (FEET), LOWEST - HIGHEST[8]	400.00	196.00	150.00 181.00	156.00	161.00 197.00	
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
45 TOTAL ASH: COLLECTED (1,000 TONS)[10]	473.10					
46 SOLD (1,000 TONS)[11]	13.70					
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
49 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
51 ELECTROSTATIC PRECIPITATORS ($1,000)	3,451.00					
52 COMBINATION PRECIPITATORS ($1,000)[4]						
53 DESULFURIZATION SYSTEMS ($1,000)						
54 STACKS ($1,000)	1,178.00	36.16	77.23	20.16	96.74	
55 ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						
56 REVENUES FROM SALE OF ASH ($1,000)	18.60					
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
58 REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]						
60 TOTAL BYPRODUCT SALES REVENUES ($1,000)	18.60					

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	C BIG BROWN	W	R BRAZOS	R SULPHUR	L STRYKER	
62 AVERAGE RATE OF WITHDRAWAL (CFS)	10.60	2.77	5.50	.21	800.00	
63 AVERAGE RATE OF DISCHARGE (CFS)	10.60	1.65	2.00	.21	800.00	
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]		.92	3.50	.19	6.88 4.80	
65 PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG OEC	JUL OEC	JUL MAR	JUN OEC	JUL OEC	
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER					91.00 61.00	
67 AT OUTFALL, SUMMER - WINTER				72.00 62.00	104.00 74.00	
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER					800.00	
69 - WINTER					800.00	
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]						
71 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.66	3.00	.30	.53	
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	55.59	.15	199.79	41.37	106.96	
73 LIME (TONS), COOLING WATER - BOILER MAKEUP						
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP						
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	166.00	12.00	11.00	.11	8.00	
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[4]	YES	YES	YES	YES	YES	
77 SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[16]	ST	ST	ST	ST	ST	
78 RECEIVING WATER BODY	O COOLING POND					
79 POND DISCHARGE:[17] PH, BOILER BLOWDOWN - ASH SETTLING	11.00					
80 SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
81 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
82 - ASH SETTLING						

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)					2 703.48	
84 ONCE THROUGH COOLING (SALINE)						
85 COOLING PONDS(S)						
86 COOLING TOWER(S)	2 1,186.80	1 156.25	2 315.63	1 112.50		
87 COMBINATION[21]						
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1969	1955	1953 1959	1953	1958 1965	
89 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	15.40	15.00	12.00 16.00	26.00	14.00 16.00	
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,514.00	186.00	556.00	307.00	826.00	
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)					826.00	

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTEMS ($1,000)						
93 COOLING PONDS ($1,000)	6,308.00		1,008.92	781.35		
94 COOLING TOWERS ($1,000)		794.14				

ANNUAL COOLING WATER EXPENSES

95 OPERATION AND MAINTENANCE EXPENSES ($1,000)		65.75		9.70	52.00	
96 COST OF CHEMICAL ADDITIVES ($1,000)	15.00	6.75	1.20		.81	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION AND MAINTENANCE EXPENSES ($1,000)		39.00		18.70	18.50	
98 COST OF CHEMICAL ADDITIVES ($1,000)	5.00	1.35	30.20	5.00	23.34	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	TEXAS POWER & LIGHT CO.	TEXAS POWER & LIGHT CO.	TEXAS POWER & LIGHT CO.	THE CANAL ELECTRIC CO.	THE CENTRAL NEBRASKA PUB. PWR & IRRIGATION DIST
NAME OF PLANT	TRADINGHOUSE	TRINIDAD	VALLEY	CANAL	CANADAY
UTILITY-PLANT CODE	478500-0850	478500-0900	478500-1000	479000-0100	479500-0100
STATE	TEXAS	TEXAS	TEXAS	MASSACHUSETTS	NEBRASKA
COUNTY	NCLENNAN	HENDERSON	FANNIN	BARNSTABLE	GOSPER
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	212 12	022 12	215 11	128 01	166 10
PLANT CAPACITY (MW)	1,379.70	412.11	1,175.50	542.50	108.80
ANNUAL GENERATION (MWH)[3]	4,582,400	1,554,800	3,181,400	3,850,700	596,200
PLANT HEAT RATE (BTU/KWH)[3]	9,761	11,409	10,790	8,999	10,147

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT (%)						
OIL: CONSUMPTION (1,000 BARRELS)	85.24	221.77	411.19	5,601.00	39.70
AVERAGE HEAT CONTENT (BTU/GAL)	147,463	147,465	147,464	147,309	150,000
AVERAGE SULFUR CONTENT (%)	.45	.50	.52	.88	.70
GAS: CONSUMPTION (1,000 MCF)	49,829.74	15,918.68	31,558.43		6,230.92
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,007	1,028	1,007		931

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	9	3	1	1
- NO. OF WET BOTTOM					
- NO. WITH FLY ASH REINJECTION					
- NO. WITH MECHANICAL PRECIPITATORS				1	
- NO. WITH ELECTROSTATIC PRECIPITATORS					
- NO. WITH COMBINATION PRECIPITATORS[4]					
- NO. WITH DESULFURIZATION SYSTEMS					
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	6.00 8.00	10.00 18.00	8.00	13.00	11.00
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					
TESTED, LOW - HIGH					
ESTIMATED, LOW - HIGH				90.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH					
TESTED, LOW - HIGH				90.00	
EST., LOW - HIGH					
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH					
TESTED, LOW - HIGH					
ESTIMATED, LOW - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.01	.04	.07	.09	.01
SULFUR DIOXIDE (1,000 TONS)	.13	.37	.72	16.54	.09
NITROGEN OXIDES (1,000 TONS)	8.76	3.59	7.06	12.35	1.30
STACKS: - TOTAL NO.	2	6	4	1	1
- HEIGHT (FEET), LOWEST - HIGHEST[8]	198.00	390.00	189.00	298.00	167.00
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]				.24	
TOTAL ASH: COLLECTED (1,000 TONS)[10]				.59	
SOLD (1,000 TONS)[11]				.59	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]					
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				4,600.00	
ELECTROSTATIC PRECIPITATORS ($1,000)					
COMBINATION PRECIPITATORS ($1,000)[4]					
DESULFURIZATION SYSTEMS ($1,000)					
STACKS ($1,000)	94.69	282.22	142.12	184.00	28.50
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)				157.00	
REVENUES FROM SALE OF ASH ($1,000)				15.00	
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)					
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)				204.00	
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]				15.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)					

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R BRAZOS	R TRINITY	R REQ	O CAPE COD CANAL	O SUPPLY CANAL
AVERAGE RATE OF WITHDRAWAL (CFS)	2.11	4.08	4.66	370.00	130.00
AVERAGE RATE OF DISCHARGE (CFS)	.69			370.00	130.00
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	16.32	4.08	4.66	1.12	1.12
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG	JUL	JUL	AUG	AUG
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	NOV	MAR	DEC	FEB	JAN
AT OUTFALL, SUMMER - WINTER				44.00	32.00
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER				71.00	55.00
- WINTER				1,650,000.00	1,127.00
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]	H		H	C	.10
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		1.60	1.20		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	203.00	60.00	106.90		
LIME (TONS), COOLING WATER - BOILER MAKEUP					
ALUM (TONS), COOLING WATER - BOILER MAKEUP					
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	18.00	15.00	12.50	1.44	17.00
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES	YES	YES
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	ST	ST	ST	ST
RECEIVING WATER BODY		O COOLING POND			
POND DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING					
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING					

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)				1 542.50	1 108.80
ONCE THROUGH COOLING (SALINE)					
COOLING PONDS	2 1,379.70	6 412.11	3 1,175.49		
COOLING TOWERS					
COMBINATION[21]					
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1969 1972	1926 1965	1962 1971	1968	1958
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	14.00 19.00	12.00	14.00	28.00	17.50
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,515.70	1,077.14	1,295.00	350.00	134.00
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)				373.00	133.00

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)				1,500.00	226.40
COOLING PONDS ($1,000)	4,075.54	280.86	918.21		
COOLING TOWERS ($1,000)					

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	85.00	30.00	.75	32.00	5.00
COST OF CHEMICAL ADDITIVES ($1,000)	2.36	3.00	2.00	2.00	3.40

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	8.50	21.00	8.60	8.00	6.90
COST OF CHEMICAL ADDITIVES ($1,000)	32.18	8.00	23.25	6.00	.40

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1 NAME OF UTILITY	THE CINCINNATI GAS & ELECTRIC CO.	THE CINCINNATI GAS & ELECTRIC CO.	THE CINCINNATI GAS & ELECTRIC CO.	THE CONNECTICUT LIGHT & POWER CO.	THE CONNECTICUT LIGHT & POWER CO.	
4 NAME OF PLANT	NIANI FOR7	BECKJORO	WEST END	OEVON	NONTVILLE	
5 UTILITY-PLANT CODE	480500-0200	480500-0300	480500-0400	481000-0300	481000-0500	
6 STATE	OHIO	OHIO	OHIO	CONNECTICUT	CONNECTICUT	
7 COUNTY	HANILTON	CLERNONT	HANIL7ON	NEW HAVEN	NEW LONDON	
8 AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	079 05	079 05	079 05	01	01	
9 PLANT CAPACITY (MW)	393.20	1,221.30	219.25	454.00	577.40	
10 ANNUAL GENERATION (NWH) 3/	1,751,600	4,221,200	378,300	2,393,800	2,897,900	
11 PLANT HEAT RATE (8TU/KWH) 3/	10,721	9,976	14,920	11,422	11,467	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)	809.80	2,633.20				
13 AVERAGE HEAT CONTENT (8TU/L8I	10,918	10,561				
14 AVERAGE SULFUR CONTENT (%)	3.21	2.63				
15 AVERAGE ASH CONTENT)%)	14.54	18.37				
16 AVERAGE NOISTURE CONTENT (%)	10.83	9.85				
17 OIL: CONSUMPTION (1,000 8ARRELS)	179.80	13.70		4,460.30	5,486.80	
18 AVERAGE HEAT CONTENT (8TU/GAL)	138,000	138,963		145,661	144,028	
19 AVERAGE SULFUR CONTENT (%)	.30	.30		.29	.44	
20 GAS: CONSUMPTION)1,000 NCF)			5,595.80			
21 AVERAGE HEAT CONTENT (8TU/CU.FT.)			1,009			

PLANT EQUIPMENT DATA

22 8OILERS: - TOTAL NO.	14	6	6	12	8	
23 - NO. OF WET 8OTTON	4					
24 - NO. WITH FLY ASH REINJECTION						
25 - NO. WITH NECHANICAL PRECIPITATORS					2	
26 - NO. WITH ELECTROSTATIC PRECIPITATORS		5		4	3	
27 - NO. WITH CONBINATION PRECIPITATORS 4/	1	1		4		
28 - NO. WITH OESULFURIZATION SYSTEMS						
29 - EXCESS AIR USEO (%), LOWEST 8OILER - HIGHEST 8OILER 5/	20.00	21.00	20.00 25.00	25.00	15.00	2.00 23.00
30 NECHANICAL PRECIPITATOR EFFICIENCY : OESIGN, LOW - HIGH						
31 TESTEO, LOW - HIGH						
32 ESTINATEO, LOW - HIGH						50.00
33 ELECTROSTATIC/CONBINATION PRECIPITATOR EFFICIENCY 6/: OESIGN, LOW - HIGH	96.00	95.00	99.50	86.00	98.00	91.00 97.00
34 TESTEO, LOW - HIGH			99.83	95.60	98.70	94.00 99.40
35 EST., LOW - HIGH	94.00	92.00	97.00		64.00	
36 OESULFURIZATION SYSTEN EFFICIENCY : OESIGN, LOW - HIGH						
37 TESTEO, LOW - HIGH						
38 ES71NATEO, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	38.48	19.71		.29	.65	
40 SULFUR OIOXIOE (1,000 TONSI	51.14	135.75		4.34	8.10	
41 NITROGEN OXIOES)1,000 TONSI	8.34	23.73	1.09	9.83	12.10	
42 STACKS: - TOTAL NO.	4	5	3	7	6	
43 - HEIGHT (FEET), LOWEST - HIGHEST 8/	175.00 375.00	250.00 452.00	206.00	220.00 357.50	171.00 390.00	
44 CONBUSTION CYCLE ADDITIVES (1,000 TONS) 9/				.30		
45 TOTAL ASH: COLLECTEO (1,000 TONSI 10/	75.00	413.80		.20		
46 SOLO (1,000 TONS) 11/		21.70				
47 TOTAL SULFUR: ELENENTAL COLLECTEO (1,000 TONS)						
48 EQUIVALENT OF ACIO COLLECTEO (1,000 TONS) 12/						
49 ELENENTAL ANO EQUIVALENT OF ACIO SOLO (1,000 TONS)						
50 INSTALLEO COSTS: NECHANICAL PRECIPITATORS ($1,000)						
51 ELECTROSTATIC PRECIPITATORS ($1,000)		4,229.00		2,195.00	539.00	
52 CONBINATION PRECIPITATORS ($1,000) 4/	535.00	627.00		278.00		
53 OESULFURIZATION SYSTENS ($1,000)						
54 STACKS ($1,000)	420.00	2,353.00	78.00	263.00	931.00	
55 ASH COLLECTION ANO OISPOSAL EXPENSES ($1,000)	19.00	51.00		14.00		
56 REVENUES FRON SALE OF ASH ($1,000)		10.90				
57 SULFUR PROOUCT COLLECTION ANO OISPOSAL EXPENSES I$1,000)						
58 REVENUES FRON SALE OF SULFUR PROOUCTS ($1,000)						
59 TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	19.00	317.00		100.90	124.90	
60 TOTAL 8YPROOUCT SALES REVENUES ($1,000)		10.90				

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R OHIO	R OHIO	R OHIO	R HOUSATONIC	R THANES	
62 AVERAGE RATE OF WITHORAWAL (CFS)	356.00	928.00	263.00	625.50	608.00	
63 AVERAGE RATE OF OISCHARGE (CFS)	356.00	928.00	263.00	625.50	608.00	
64 AVE. RATE OF CONSUNPTION (CFS), CALCULATED - REPORTED 14/	3.06	7.90	2.24	5.34	5.23	
65 PEAK LOAO NONTH : SUMMER - WINTER 15/	AUG OEC	AUG OEC	AUG OEC	SEP JAN	SEP JAN	
66 NAX. TEMP. OURING PEAK NONTH (OEG. F.): AT OIVERSION, SUMNER - WINTER	84.00 49.00	84.00 51.00	84.00 51.00	74.00 37.00	68.00 39.00	
67 AT OUTFALL, SUMNER - WINTER	85.00 65.00	86.00 68.00	92.00 55.00	86.00 48.00	98.00 71.00	
68 AVE. FLOW IN RECEIVING 8OOY OURING PEAK NONTH (CFS): SUMMER	24,000.00	24,000.00	24,000.00		TIOAL	
69 - WINTER	161,000.00	161,000.00	161,000.00		TIOAL	
70 FREQUENCY OF TENPERATURE NONITORING: C, H, O, O 16/						
71 CHENICAL AOOITIVES: PHOSPHATE (TONS) 1, COOLING WATER - 8OILER NAKEUP				2.00	.50	
72 CAUSTIC SOOA (TONS), COOLING WATER - 8OILER NAKEUP	213.60	275.00	.20	1.60	.20	
73 LINE (TONS), COOLING WATER - 8OILER NAKEUP	15.90		14.85			
74 ALUN (TONS), COOLING WATER - 8OILER NAKEUP						
75 CHLORINE (TONSI, COOLING WATER - 8OILER NAKEUP	77.80	44.00	.30	32.00		
76 OTHER (YES/NO), COOLING WATER - 8OILER NAKEUP 17/	YES	YES	YES	YES	YES YES	
77 SEWAGE OISPOSAL: NETHOO PS, ST, SW, OT 18/	ST	ST	PS	S7	S7	
78 RECEIVING WATER 8OOY	R OHIO	R OHIO				
79 PONO OISCHARGE: 19/ PH, 8OILER 8LOWDOWN - ASH SETTLING	10.00 10.70	9.00 10.10	10.30	7.00		
80 SUSPENOEO SOLIOS)PPN), 8OILER 8LOWDOWN - ASH SETTLING	450.00	15.00				
81 VOLUME)1,000 CUFT/YR), 8OILER 8LOWDOWN	4,480.00	2,431.00	2,892.00			
82 - ASH SETTLING	360,000.00	72,317.30		25,000.00		

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	6 519.20	6 1,221.30	6 328.65			
84 ONCE THROUGH COOLING (SALINE)				7 454.00	6 559.00	
85 COOLING PONO(S)						
86 COOLING TOWER(S)						
87 CONBINATION 21/						
88 COOLING SYSTEN, YEAR OF INSTALLATION: OLOEST SYSTEN - NEWEST SYSTEN	1925 1960	1952 1969	1918	1924 1958	1923 1971	
89 OESIGN: TENP. RISE ACROSS CONOENSERS (OEG. F), SNALLEST - LARGEST 22/	10.00 19.00	17.00 23.00	10.00	11.70 17.30	25.00	
90 TOTAL RATE OF FLOW THROUGH ALL CONOENSERS (CFS)	918.00	1,146.00	540.00	816.40	370.00	
91 TOTAL RATE OF WITHORAWAL, ONCE THROUGH COOLING SYSTENS (CFS)	918.00	1,146.00	540.00	887.70		

CAPITAL COSTS OF COOLING FACILITIES

92 ONCE THROUGH COOLING SYSTENS ($1,000)	402.00	1,116.00	336.00	1,345.00		
93 COOLING PONOS ($1,000)						
94 COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

95 OPERATION ANO NAINTENANCE EXPENSES ($1,000)	87.00	100.00	50.00	63.00	6.70	
96 COST OF CHEMICAL AOOITIVES)$1,000)	13.00	7.00	.10	4.00	19.50	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97 OPERATION ANO NAINTENANCE EXPENSES ($1,000)	66.00	56.00	100.00	123.00	14.40	
98 COST OF CHENICAL ACOITIVES ($1,000)	144.00	35.00	4.40	15.00	2.50	

99 ALL FOOTNOTES ARE SHOWN AT THE ENO OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	THE CONNECTICUT LIGHT & POWER CO.	THE DAYTON POWER & LIGHT CO.	THE DAYTON POWER & LIGHT CO.	THE DAYTON POWER & LIGHT CO.	THE DETROIT EDISON CO.	
NAME OF PLANT	NORWALK HARBOR	TAIT	HUTCHINGS	STUART	CONNERS CREEK	
UTILITY-PLANT CODE	401000-0600	401500-0200	401500-0300	401500-0400	482000-0200	
STATE	CONNECTICUT	OHIO	OHIO	OHIO	MICHIGAN	
COUNTY	FAIRFIELD	MONTGOMERY	MONTGOMERY	ADAMS	WAYNE	
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	043 01	05	05	05	04	
PLANT CAPACITY (MW)	326.40	448.60	414.00	1,830.60	510.00	
ANNUAL GENERATION (MWH) 3/	2,038,900	1,665,500	1,757,500	10,816,700	2,464,300	
PLANT HEAT RATE (BTU/KWH) 3/	10,105	11,031	10,676	9,283	13,050	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)		795.90	765.20	4,534.40	863.00	
AVERAGE HEAT CONTENT (BTU/LB)		11,465	12,186	11,053	11,645	
AVERAGE SULFUR CONTENT (%)		.97	.86	1.68	1.81	
AVERAGE ASH CONTENT (%)		13.67	10.71	15.88	13.75	
AVERAGE MOISTURE CONTENT (%)		7.38	7.05	7.65	6.70	
OIL: CONSUMPTION (1,000 BARRELS)	3,387.56	8.70		27.50	291.14	
AVERAGE HEAT CONTENT (BTU/GAL)	143,630	136,000		140,000	136,900	
AVERAGE SULFUR CONTENT (%)	.47	.20		.10	.20	
GAS: CONSUMPTION (1,000 MCF)		50.80	108.20		9,378.00	
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,045	1,045		1,020	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	6	6	3	13	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION			3		9	
- NO. WITH MECHANICAL PRECIPITATORS			6	3		
- NO. WITH ELECTROSTATIC PRECIPITATORS	2	6			4	
- NO. WITH COMBINATION PRECIPITATORS 4/						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	22.00	25.00	20.00	10.00	25.00	
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH			87.00		80.00	
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	99.00	97.50	99.50	98.00	98.00	
TESTED, LOW - HIGH	99.40	93.20	99.90	95.00	99.00	
EST., LOW - HIGH		94.00	99.90			
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)		8.48	.07	30.60	1.03	
SULFUR OXIDES (1,000 TONS)	2.70	15.14	12.84	149.32	30.88	
NITROGEN OXIDES (1,000 TONS)	3.77	7.19	6.88	40.86	10.26	
STACKS: - TOTAL NO.	1	4	3	3	8	
- HEIGHT (FEET), LOWEST - HIGHEST 8/	350.00	307.00	250.00	800.00	252.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/						
TOTAL ASH: COLLECTED (1,000 TONS) 10/	.27	101.00	80.30	648.00	117.10	
SOLD (1,000 TONS) 11/					28.80	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			211.00		891.00	
ELECTROSTATIC PRECIPITATORS ($1,000)			5,183.00	4,379.00		
COMBINATION PRECIPITATORS ($1,000) 4/	1,546.00	1,334.00			2,262.00	
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	276.00	138.00	288.00	6,977.00	443.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	24.60	186.00	236.00	538.00	264.00	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	56.80	186.00	239.00	538.00	650.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)					54.00	

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	O LONG IS SOUND	R GREAT MIAMI	R GREAT MIAMI	R OHIO	R DETROIT	
AVERAGE RATE OF WITHDRAWAL (CFS)	470.00	321.70	322.30	1,524.00	796.00	
AVERAGE RATE OF DISCHARGE (CFS)	470.00	321.00	321.50	1,522.50	796.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	4.04	.70	.80	1.50	6.85	
PEAK LOAD MONTH: SUMMER - WINTER 15/	AUG	JAN	AUG	OEC	AUG	JAN
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	76.00	36.00	85.70	52.10	92.00	40.00
AT OUTFALL, SUMMER - WINTER	78.00	61.00	88.50	73.60	108.00	92.00
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	7IDAL					
- WINTER	7IDAL	3,653.00	3,916.00	213,000.00	236,000.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OT 16/			C			
CHEMICAL ADDITIVES: PHOSPHATE (TONS) 1, COOLING WATER - BOILER MAKEUP		.18	.25	3.00	2.65	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	7.00	.11	.01	717.04		
LIME (TONS), COOLING WATER - BOILER MAKEUP		55.75	41.30			
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	78.00	43.00	94.00	20.00	30.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	$7	PS	SW	OT	PS	
RECEIVING WATER BODY			R GREAT MIAMI	R OHIO		
POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING	7.30	8.00	8.50	6.90	8.50	8.00
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING		10.00	20.00	10.00		200.00
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	120,000.00	4,600.00	22,100.00	577,500.00	40,000.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	2 326.40	7 444.10	6 414.00	3 1,830.60	8 540.00	
ONCE THROUGH COOLING (SALINE)						
COOLING PONDS						
COOLING TOWERS						
COMBINATION 21/						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1960 1963	1942 1959	1948 1953	1970 1972	1934 1951	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/		12.00 15.00	13.40 16.50	22.00	17.00 19.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	440.00	595.60	579.00	1,443.00	1,410.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		595.60	579.00	1,443.00	1,680.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	1,979.00	1,198.00	983.00	12,803.00	1,434.00	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	77.50	90.00	107.00	335.00	143.00	
COST OF CHEMICAL ADDITIVES ($1,000)	16.90	4.00	15.00	2.00		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	26.00	67.00	27.00	77.00	463.00	
COST OF CHEMICAL ADDITIVES ($1,000)	8.40	3.00	3.00	104.00	1.00	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	THE DETROIT EDISON CO.	THE DETROIT EDISON CO.	THE DETROIT EDISON CO.	THE DETROIT EDISON CO.	THE DETROIT EDISON CO.	
NAME OF PLANT	DELRAY	FERMI	HARBOR BEACH	MARYSVILLE	PENNSALT	
UTILITY-PLANT CODE	482000-0400	482000-0500	482000-0700	482000-0800	482000-1000	
STATE	MICHIGAN	MICHIGAN	MICHIGAN	MICHIGAN	MICHIGAN	
COUNTY	WAYNE	MONROE	HURON	ST. CLAIR	WAYNE	
[illegible] CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	[illegible] 04	[illegible] 04	[illegible] 04	[illegible] 04	[illegible] 04	
PLANT CAPACITY (MW)	375.00	158.00	121.00	200.00	37.00	
ANNUAL GENERATION (MWH) 3/	1,213,700	214,100	317,700	895,200	71,800	
PLANT HEAT RATE (BTU/KWH) 3/	14,440	14,626	10,600	12,300	54,657	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)			144.00	509.00	155.00	
AVERAGE HEAT CONTENT (BTU/LB)			11,500	11,698	11,635	
AVERAGE SULFUR CONTENT (%)			3.03	2.87	1.44	
AVERAGE ASH CONTENT (%)			13.38	13.46	13.38	
AVERAGE MOISTURE CONTENT (%)			7.49	6.82	7.76	
OIL: CONSUMPTION (1,000 BARRELS)	2,825.13	540.27	11.15		55.41	
AVERAGE HEAT CONTENT (BTU/GAL)	149,414	138,002	137,000		136,890	
AVERAGE SULFUR CONTENT (%)	1.16	.16	.10		.20	
GAS: CONSUMPTION (1,000 MCF)	9,848.00			90.00		
AVERAGE HEAT CONTENT (BTU/CU.FT.)	541			1,006		

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	12	1	1	10	4	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS	12				2	
- NO. WITH ELECTROSTATIC PRECIPITATORS			1	4		
- NO. WITH COMBINATION PRECIPITATORS 4/					2	
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), [illegible] - HIGHEST BOILER 5/						
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, [illegible] - HIGH	25.00	10.00	20.00	25.00	22.00	
TESTED, [illegible] - HIGH	80.00				75.00	
ESTIMATED, [illegible] - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, [illegible] - HIGH			99.60	99.60	97.66	
TESTED, [illegible] - HIGH			99.40	99.60	98.50	
EST., [illegible] - HIGH			99.00	97.60	98.00	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, [illegible] - HIGH						
TESTED, [illegible] - HIGH						
ESTIMATED, [illegible] - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.09	.09	.16	1.47	.80	
SULFUR DIOXIDE (1,000 TONS)	10.99	.29	8.56	28.63	4.41	
NITROGEN OXIDES (1,000 TONS)	8.15	1.19	1.32	4.60	1.52	
STACKS: - TOTAL NO.	6	1	1	8	4	
- HEIGHT (FEET), LOWEST - HIGHEST 8/	270.00	158.50	300.00	300.00	223.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/			18.80	66.10	20.40	
TOTAL ASH: COLLECTED (1,000 TONS) 10/						
SOLD (1,000 TONS) 11/						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	1,923.00					
ELECTROSTATIC PRECIPITATORS ($1,000)			455.00	3,144.00		
COMBINATION PRECIPITATORS ($1,000) 4/					1,096.00	
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	104.00	110.00	241.00	112.00	40.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)			19.00	137.00	38.00	
REVENUES FROM SALE OF ASH ($1,000)				1.00		
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/						
TOTAL BYPRODUCT SALES REVENUES ($1,000)	55.00	16.00	73.00	327.00	96.00	
				1.00		

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R DETROIT	L ERIE	L HURON	R ST. CLAIR	R DETROIT	
AVERAGE RATE OF WITHDRAWAL (CFS)	936.00	82.00	154.00	461.00	18.28	
AVERAGE RATE OF DISCHARGE (CFS)	936.00	82.00	154.00	461.00	16.92	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
PEAK LOAD MONTH : SUMMER - WINTER 15/	8.05	[illegible]	1.37	3.94	.16	1.36
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	AUG	JUL	AUG	AUG	AUG	JAN
AT OUTFALL, SUMMER - WINTER	70.00	40.00	54.00	70.00	71.00	36.00
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	60.00	70.00	49.00	52.00	84.00	48.00
- WINTER	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, ON 16/	236,000.00			227,000.00	236,000.00	
CHEMICAL ADDITIVES: PHOSPHATE (TONS) 1, COOLING WATER - BOILER MAKEUP	6.20		.04	.85	2.02	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	842.33			.07	.80	
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	4.00	4.00	1.25	5.00	.05	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 17/	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	PS	OT	PS	PS	PS	
RECEIVING WATER BODY		L ERIE				
PONO DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING	11.00	8.50	8.30	11.00	11.00	8.50
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			8.00	8.00		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN			30.00	500.00	50.00	
- ASH SETTLING	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
			7,400.00	9,900.00	12,300.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	6 375.00	1 158.00	1 121.00	7 300.00	7 37.00	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)						
COOLING TOWER(S)						
COMBINATIONS 21/						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1929 1942	1966	1968	1922 1947	1964	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	19.00 19.00	25.00	13.00	7.00 15.00		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,710.00	290.00	200.00	1,047.00	67.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,710.00	290.00	200.00	1,047.00	67.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	451.00	912.00	362.00	136.00	16.00	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)						
COST OF CHEMICAL ADDITIVES ($1,000)	44.00	12.00	7.00	173.00	14.00	
	1.00					

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	795.00	173.00	80.00	522.00	289.00	
COST OF CHEMICAL ADDITIVES ($1,000)	89.00	5.00	1.00	19.00	7.00	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	THE DETROIT EDISON CO.	THE DETROIT EDISON CO.	THE DETROIT EDISON CO.	THE DETROIT EDISON CO.	THE DETROIT EDISON CO.
2						
3						
4	NAME OF PLANT	RIVER ROUGE	ST. CLAIR	TRENTON CHANNEL	WYANDOTTE	MONROE
5	UTILITY-PLANT CODE	482000-1200	482000-1400	482000-1600	482000-1700	482000-1800
6	STATE	MICHIGAN	MICHIGAN	MICHIGAN	MICHIGAN	MICHIGAN
7	COUNTY	WAYNE	ST. CLAIR	WAYNE	WAYNE	MONROE
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	123 04	328 04	328 04	123 04	124 06
9	PLANT CAPACITY (NW)	933.00	1,905.00	876.00	54.00	2,462.00
10	ANNUAL GENERATION (NWH) [3]	4,545,200	10,509,600	4,784,100	11,800	9,909,300
11	PLANT HEAT RATE (BTU/KWH) [3]	9,450	9,220	10,450		9,600

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	1,211.00	5,560.00	1,787.00	280.00	5,729.00
13	AVERAGE HEAT CONTENT (BTU/LB)	11,999	11,790	11,970	11,777	12,475
14	AVERAGE SULFUR CONTENT (%)	3.37	3.01	2.05	1.13	2.77
15	AVERAGE ASH CONTENT (%)	11.75	13.48	11.79	12.34	12.10
16	AVERAGE MOISTURE CONTENT (%)	7.45	6.41	8.74	7.82	5.01
17	OIL: CONSUMPTION (1,000 BARRELS)	2,383.18	2,027.39	99.41	196.53	248.31
18	AVERAGE HEAT CONTENT (BTU/GAL)	137,794	149,738	137,164	137,084	135,922
19	AVERAGE SULFUR CONTENT (%)	.77	1.52	.16	.18	.22
20	GAS: CONSUMPTION (1,000 MCF)	12,024.00	200.00	8,863.00	1,558.00	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	960	1,008	1,019	1,020	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	3	7	10	5	3
23	- NO. OF WET BOTTOM				4	
24	- NO. WITH FLY ASH REINJECTION					
25	- NO. WITH MECHANICAL PRECIPITATORS					
26	- NO. WITH ELECTROSTATIC PRECIPITATORS		2	10	2	3
27	- NO. WITH COMBINATION PRECIPITATORS [4]	3	5		2	
28	- NO. WITH DESULFURIZATION SYSTEMS					
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER [5]	18.00	23.00	24.50	26.00	18.00
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH					
31	TESTED, LOW - HIGH					
32	ESTIMATED, LOW - HIGH					
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH	97.80	99.60	99.80	99.60	99.62
34	TESTED, LOW - HIGH	97.20	98.70	99.40	98.90	99.00
35	EST., LOW - HIGH	97.20	98.40	99.40	99.20	99.60
36	DESULFURIZATION SYSTEN EFFICIENCY : DESIGN, LOW - HIGH					
37	TESTED, LOW - HIGH					
38	ESTIMATED, LOW - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	4.29	20.13	3.39	.31	3.24
40	SULFUR DIOXIDE (1,000 TONS)	86.15	220.36	71.86	6.32	204.05
41	NITROGEN OXIDES (1,000 TONS)	18.31	36.29	18.03	4.94	34.34
42	STACKS: - TOTAL NO.	3	7	7	5	2
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	425.00	600.00	563.00	229.00	800.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]					
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	139.70	368.10	204.60	31.60	451.70
46	SOLD (1,000 TONS) [11]	9.50	34.80	80.70		
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]					
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)					
51	ELECTROSTATIC PRECIPITATORS ($1,000)		5,472.00	6,482.00	1,170.00	12,199.00
52	COMBINATION PRECIPITATORS ($1,000) [4]	5,712.00	5,099.00		994.00	
53	DESULFURIZATION SYSTENS ($1,000)					5,799.00
54	STACKS ($1,000)	817.00	2,794.00	1,690.00		1.00
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	183.00	522.00	227.00	109.00	
56	REVENUES FROM SALE OF ASH ($1,000)	15.00		207.00		
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)					
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)					
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	381.00	1,595.00	824.00	226.00	745.00
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	15.00	5.00	207.00	4.00	

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R DETROIT	R ST. CLAIR	R DETROIT	R DETROIT	R RAISIN
62	AVERAGE RATE OF WITHDRAWAL (CFS)	1,041.00	2,290.00	1,400.00	152.20	1,796.00
63	AVERAGE RATE OF DISCHARGE (CFS)	1,041.00	2,290.00	1,400.00	112.90	1,796.00
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]				39.30	
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	AUG	JAN	AUG JAN	AUG JAN	AUG JAN
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	80.00	37.00	45.00	38.00	80.00 37.00
67	AT OUTFALL, SUMMER - WINTER		58.00	60.00	51.00	75.00 54.00
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER					
69	- WINTER	236,000.00	227,000.00	236,000.00	209,000.00	
70	FREQUENCY OF TEMPERATURE MONITORING: C, M, O, O [16]					C
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		.50	5.00	11.05	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	321.30		840.00		
73	LIME (TONS), COOLING WATER - BOILER MAKEUP		30.26	137.20	267.77	
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	54.43	156.16		32.24	
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP				24.00	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES	YES	YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	PS	PS	PS	PS	PS
78	RECEIVING WATER BODY					
79	POND DISCHARGE [19]: PH, ASH OR SLUICING - ASH SETTLING	8.00	8.00	8.00	8.50	9.00
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	15.00	15.00	10.00	50.00	20.00
81	VOLUME (1,000 CUFT/YR), MISCELLANEOUS - ASH SETTLING					
82		13,000.00	18,800.00	16,930.00	24,000.00	292,000.00

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (NW) USING: ONCE THROUGH COOLING (FRESH)	3 933.00	7 1,905.00	5 876.00	8 54.00	3 2,462.40
84	ONCE THROUGH COOLING (SALINE)					
85	COOLING POND(S)					
86	COOLING TOWER(S)					
87	COMBINATION [20]					
88	COOLING SYSTEN, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEN	1956 1958	1969 1969	1924 1968	1965 1971	1973 1973
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), LARGEST [21]	15.00 17.00	20.00 20.00	8.00 25.00	10.00 20.00	21.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,004.00	2,070.00	1,244.00	46.00	2,238.00
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTENS (CFS)	1,004.00	2,070.00	2,132.00	46.00	2,238.00

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTENS ($1,000)	2,238.00	4,031.00	935.00		6,883.00
93	COOLING PONDS ($1,000)					
94	COOLING TOWERS ($1,000)					

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	21.00	12.00	130.00	32.00	90.00
96	COST OF CHEMICAL ADDITIVES ($1,000)				3.00	4.00

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	690.00	781.00	927.00	555.00	1,013.00
98	COST OF CHEMICAL ADDITIVES ($1,000)	30.00	23.00	62.00	23.00	240.00

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	THE HARTFORD ELECTRIC LIGHT CO.	THE HARTFORD ELECTRIC LIGHT CO.	THE KANSAS POWER & LIGHT CO.	THE KANSAS POWER & LIGHT CO.	THE KANSAS POWER & LIGHT CO.	1
2							2
3							3
4	NAME OF PLANT	MIDDLETOWN	SOUTH MEADOW	HUTCHINSON	LAWRENCE	ABILENE	4
5	UTILITY-PLANT CODE	483000-0300	483000-0400	483500-0300	483500-0500	483500-0600	5
6	STATE	CONNECTICUT	CONNECTICUT	KANSAS	KANSAS	KANSAS	6
7	COUNTY	MIDDLESEX	HARTFORD	RENO	DOUGLAS	DICKINSON	7
8	AIR QUALITY CONTROL REGION NO. [1] - WATER RESOURCE REGION NO. [2]	042 01	042 01	098 11	095 10	096 10	8
9	PLANT CAPACITY (MW)	836.90	216.75	257.20	613.35	33.75	9
10	ANNUAL GENERATION (MWH) [3]	3,587,300	738,800	1,515,600	2,914,000	125,000	10
11	PLANT HEAT RATE (BTU/KWH) [3]	10,356	14,289	11,133	10,835	19,613	11
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	20.28			211.30		12
13	AVERAGE HEAT CONTENT (BTU/LB)	11,746			12,134		13
14	AVERAGE SULFUR CONTENT (%)	2.25			3.90		14
15	AVERAGE ASH CONTENT (%)	15.00			13.30		15
16	AVERAGE MOISTURE CONTENT (%)	10.00			6.20		16
17	OIL: CONSUMPTION (1,000 BARRELS)	6,055.21	1,740.60	86.10	221.70	22.80	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	144,204	144,463	151,000	147,619	148,638	18
19	AVERAGE SULFUR CONTENT (%)	.51	.47	1.50	2.30	1.50	19
20	GAS: CONSUMPTION (1,000 MCF)		.24	16,149.70	24,413.90	1,708.00	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,000	1,011	1,028	968	21
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	6	6	4	6	2	22
23	- NO. OF WET BOTTOM	3					23
24	- NO. WITH FLY ASH REINJECTION	1					24
25	- NO. WITH MECHANICAL PRECIPITATORS		3				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	1					26
27	- NO. WITH COMBINATION PRECIPITATORS [4]	2					27
28	- NO. WITH DESULFURIZATION SYSTEMS				2		28
29	- EXCESS AIR USED (%), LOWEST BOILER [5] - HIGHEST BOILER [5]	3.00 18.00	12.00 28.00	9.00 15.00	8.00 20.00	20.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		87.00				30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY [6]: DESIGN, LOW - HIGH		35.00				33
34	TESTED, LOW - HIGH	97.00 98.50					34
35	EST., LOW - HIGH						35
36	DESULFURIZATION SYSTEN EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH				83.00		37
38	ESTIMATED, LOW - HIGH				60.00		38
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS [7]: PARTICULATE MATTER (1,000 TONS)	.42	.22	.01	23.92		39
40	SULFUR DIOXIDE (1,000 TONS)	11.26	5.78	.43	17.86	.11	40
41	NITROGEN OXIDES (1,000 TONS)	13.66	3.84	3.34	7.15	.38	41
42	STACKS: - TOTAL NO.	4	5	5	6	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST [8]	266.00	206.50	75.00 148.50	129.00 354.80	168.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) [9]	.60	.10		19.60		44
45	TOTAL ASH: COLLECTED (1,000 TONS) [10]	2.60	.20		38.70		45
46	SOLD (1,000 TONS) [11]						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) [12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		280.00				50
51	ELECTROSTATIC PRECIPITATORS ($1,000)						51
52	COMBINATION PRECIPITATORS ($1,000) [4]	511.00					52
53	DESULFURIZATION SYSTENS ($1,000)	560.00					53
54	STACKS ($1,000)						54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	1,921.00	45.20	44.80	333.00	31.30	55
56	REVENUES FROM SALE OF ASH ($1,000)	45.69	16.93		110.00		56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)				147.00		58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) [13]	170.24	47.59		257.00		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)						60
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R CONNECTICUT	R CONNECTICUT	W	RW KANSAS	R SNOKY HILL	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	340.50	418.00	6.00	10.70	33.58	62
63	AVERAGE RATE OF DISCHARGE (CFS)	336.50	418.00	1.80	3.10	33.58	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED [14]	4.00		4.20	7.60 .29		64
65	PEAK LOAD MONTH : SUMMER - WINTER [15]	2.93 AUG JAN	3.99 AUG JAN	AUG DEC	AUG DEC	AUG DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	80.00 32.00	91.00 39.00	80.00 60.00		84.00 37.00	66
67	AT OUTFALL, SUMMER - WINTER	103.00 64.00	58.00	85.00 40.00	92.00 85.00	96.00 57.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	8,380.00		61.00			68
69	- WINTER	29,800.00	27,200.00	140.00	17,000.00	6,100.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OT [16]						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.42	.61	2.50 .50	.60	.30	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		.78	1.50	90.00	7.84	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	76.00	96.00	20.30	48.50		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP [17]	YES	YES	YES YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT [18]	S7	PS	ST	OT	SW	77
78	RECEIVING WATER BODY	O LEACHING FIELD		O DRAIN FIELD	R KANSAS		78
79	POND DISCHARGE: [19] PH, BOILER BLOWDOWN - ASH SETTLING	7.00		9.30	10.50 9.00	9.50	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				25.00 100.00		80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN				30		81
82	- ASH SETTLING	101,991.70			3,850.00		82
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING [20]: ONCE THROUGH COOLING (FRESH)	3 422.00	6 221.75			2 33.75	83
84	ONCE THROUGH COOLING (SALINE)						84
85	COOLING POND(S)						85
86	COOLING TOWER(S)	1 414.90		4 252.20	5 613.35		86
87	COMBINATION [21]						87
88	COOLING SYSTEN, YEAR OF INSTALLATION: OLDEST SYSTEN - NEWEST SYSTEN	1954 1973	1921 1950	1949 1965	1960 1971	1940 1947	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST [22]	16.00 22.00	12.00	10.00 14.80	11.80 21.40	9.67 11.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	882.80	508.00	402.20	395.80	103.61	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	440.00	508.00			103.61	91
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)					193.00	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)	4,528.00		1,918.00	4,533.00		94
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	326.35	122.80	82.00	72.00	19.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	9.40	14.40	37.00	141.66		96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	60.55	9.09	15.00	44.00	22.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	58.25	3.34	2.00	12.81	2.70	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	THE KANSAS POWER & LIGHT CO.	THE MONTANA POWER CO.	THE MONTANA POWER CO.	THE NARRAGANSETT ELECTRIC CO.	THE NARRAGANSETT ELECTRIC CO.	1
2							2
3		TECUMSEH	BIRD	COLETTE	MANCHESTER STREET	SOUTH STREET	3
4	NAME OF PLANT	483500-0700	484500-0400	484500-0700	485000-0100	485000-0300	4
5	UTILITY-PLANT CODE	KANSAS	MONTANA	MONTANA	RHODE ISLAND	RHODE ISLAND	5
6	STATE	SHAWNEE	YELLOWSTONE	YELLOWSTONE	PROVIDENCE	PROVIDENCE	6
7	COUNTY	093 10	140 10	140 10	120 01	120 01	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	346.10	69.00	172.80	132.00	145.90	8
9	PLANT CAPACITY (MW)	839,900	98,500	1,037,500	595,800	513,600	9
10	ANNUAL GENERATION (MWH)[3]	13,753	12,655	10,220	12,280	13,682	10
11	PLANT HEAT RATE (BTU/KWH)[3]						11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	98.50		586.00			12
13	AVERAGE HEAT CONTENT (BTU/LB)	12,233		8,582			13
14	AVERAGE SULFUR CONTENT (%)	3.90		.67			14
15	AVERAGE ASH CONTENT (%)	13.00		8.22			15
16	AVERAGE MOISTURE CONTENT (%)	5.50		24.72			16
17	OIL: CONSUMPTION (1,000 BARRELS)	84.20	126.60		1,165.10	1,174.90	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	144,500	145,219		146,148	146,134	18
19	AVERAGE SULFUR CONTENT (%)	1.50	1.25		.92	.90	19
20	GAS: CONSUMPTION (1,000 MCF)	8,989.00	402.00	433.00			20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	993	1,179	1,180			21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	9	1	1	3	10	22
23	- NO. OF WET BOTTOM						23
24	- NO. WITH FLY ASH REINJECTION				3	2	24
25	- NO. WITH MECHANICAL PRECIPITATORS	2				2	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS			1			26
27	- NO. WITH COMBINATION PRECIPITATORS[4]						27
28	- NO. WITH DESULFURIZATION SYSTEMS						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	8.00 30.00	20.00	21.00	15.00	12.00 40.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00			85.00	86.00	30
31	TESTED, LOW - HIGH						31
32	ESTIMATED, LOW - HIGH				66.00		32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH			97.00		90.00	33
34	TESTED, LOW - HIGH			95.20			34
35	EST., LOW - HIGH			97.00		90.00	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						36
37	TESTED, LOW - HIGH						37
38	ESTIMATED, LOW - HIGH						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	1.64	.02	1.23	.03	.05	39
40	SULFUR DIOXIDE (1,000 TONS)	7.95	.53	7.70	3.53	2.94	40
41	NITROGEN OXIDES (1,000 TONS)	3.11	.36	5.36	2.52	2.59	41
42	STACKS: - TOTAL NO.	1	1	1	2	5	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	133.00 203.00	150.00	350.00	207.00 208.00	107.00 325.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]				.28	.04	44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	12.80		46.60			45
46	SOLD (1,000 TONS)[11]						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	170.00			179.40	101.60	50
51	ELECTROSTATIC PRECIPITATORS ($1,000)			1,030.00		256.80	51
52	COMBINATION PRECIPITATORS ($1,000)[4]						52
53	DESULFURIZATION SYSTEMS ($1,000)						53
54	STACKS ($1,000)	240.00	39.00	269.00	40.80	279.40	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	28.00		21.30	4.00	10.00	55
56	REVENUES FROM SALE OF ASH ($1,000)			24.20			56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	28.00		21.30	25.10	32.00	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)			24.20			60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE(CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R KANSAS	R YELLOWSTONE	R YELLOWSTONE	B PROVIDENCE	B PROVIDENCE	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	61.40		90.00	340.00	310.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	58.30		90.00	340.00	322.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	3.10		.77	2.92	2.67	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG OEC	JUL JAN	JUL JAN	AUG NOV	AUG NOV	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	85.00 37.00	69.00 34.00	69.00 34.00	80.00 60.00	83.00 58.00	66
67	AT OUTFALL, SUMMER - WINTER	95.00 69.00	92.00	108.00 72.00	94.00 73.00	96.00 69.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	8,340.00	10,600.00	10,600.00	340.00	322.00	68
69	- WINTER	15,500.00	3,125.00	3,125.00	340.00	310.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D[16]						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	7.43 .30	.05	.15	3.74	25.66	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.25	.02	.03	1.15	7.22	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	309.90 77.50					73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	4.14 1.04					74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	21.00			10.38	3.63	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	SW	OT	OT	PS	PS	77
78	RECEIVING WATER BODY	R KANSAS					78
79	POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	10.00 9.50		8.00			79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	500.00		300.00			80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	265.00					81
82	- ASH SETTLING	7,500.00		400.00			82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	4 115.00	1 69.00	1 172.80			83
84	ONCE THROUGH COOLING (SALINE)				3 146.00	4 188.00	84
85	COOLING POND(S)						85
86	COOLING TOWER(S)	2 231.10					86
87	COMBINATION[21]						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1927 1962	1951	1968	1941 1947	1924 1953	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	12.30 17.20	24.20	28.80	12.00	17.00 30.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	605.60	75.70	115.00	360.00	399.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	280.30	75.70	115.00	399.00	399.00	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)	555.00	113.00	396.00	945.00	2,145.00	92
93	COOLING PONDS ($1,000)						93
94	COOLING TOWERS ($1,000)	1,644.00					94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	101.00	1.10	2.20	1.50	1.00	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	22.00			2.60	1.40	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	107.00	3.30	12.10	5.00	.50	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	31.00	.55	1.10	2.20	8.60[24]	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	THE POTOMAC EDISON CO.	THE TOLEDO EDISON CO.	THE TOLEDO EDISON CO.	THE TUCSON GAS & ELECTRIC CO.	THE TUCSON GAS & ELECTRIC CO.
4	NAME OF PLANT	SMITH	ACME	BAY SHORE	OEMOSS PETRIE	IRVINGTON
5	UTILITY-PLANT CODE	486500-0300	488000-0100	488000-0200	488500-0100	488500-0200
6	STATE	MARYLAND	OHIO	OHIO	ARIZONA	ARIZONA
7	COUNTY	WASHINGTON	LUCAS	LUCAS	PIMA	PIMA
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	113 02	124 04	124 04	015 15	015 15
9	PLANT CAPACITY (MW)	109.50	321.00	638.00	104.50	504.54
10	ANNUAL GENERATION (MWH)[3]	497,300	863,800	4,490,800	382,000	2,402,000
11	PLANT HEAT RATE (BTU/KWH)[3]	11,236	12,994	9,238	13,416	10,759

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	231.60	424.00	1,706.71			
13	AVERAGE HEAT CONTENT (BTU/LB)	12,011	11,410	12,143			
14	AVERAGE SULFUR CONTENT (%)	.91	2.68	1.93			
15	AVERAGE ASH CONTENT (%)	11.08	15.19	10.78			
16	AVERAGE MOISTURE CONTENT (%)	7.82	6.72	6.15			
17	OIL: CONSUMPTION (1,000 BARRELS)	3.44	141.00	6.96	171.27	2,154.92	
18	AVERAGE HEAT CONTENT (BTU/GAL)	139,000	157,159	137,455	146,648	142,596	
19	AVERAGE SULFUR CONTENT (%)	.25	.99	.45	.76	.64	
20	GAS: CONSUMPTION (1,000 MCF)		1,125.00		3,846.66	12,071.66	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		540		1,067	1,068	

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	6	10	4	4	4		
23	- NO. OF WET BOTTOM							
24	- NO. WITH FLY ASH REINJECTION							
25	- NO. WITH MECHANICAL PRECIPITATORS	4						
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	2	3	2				
27	- NO. WITH COMBINATION PRECIPITATORS[4]		3	2				
28	- NO. WITH DESULFURIZATION SYSTEMS							
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]							
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	20.00 50.00	15.00 25.00	17.00 23.00	9.00 15.00		7.50	
31	TESTED, LOW - HIGH	83.00						
32	ESTIMATED, LOW - HIGH							
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	94.00 99.50	97.40 99.50	98.50 99.50				
34	TESTED, LOW - HIGH	97.50 99.70	97.40 98.70	95.10				
35	EST., LOW - HIGH	97.50 99.70	96.50 99.50	97.60 99.50				
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
37	TESTED, LOW - HIGH							
38	ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.16	1.17	1.34	.03	.36		
40	SULFUR DIOXIDE (1,000 TONS)	1.19	22.71	64.57	.44	4.63		
41	NITROGEN OXIDES (1,000 TONS)	2.09	3.71	14.29	1.13	7.11		
42	STACKS: - TOTAL NO.	8	4	4	4	4		
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	132.00 200.00	246.00 298.00	250.00	101.00 198.00	130.00 146.00		
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]							
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	23.40	64.60	182.30				
46	SOLD (1,000 TONS)[11]							
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]							
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	180.00						
51	ELECTROSTATIC PRECIPITATORS ($1,000)	1,594.00	1,519.00	803.80				
52	COMBINATION PRECIPITATORS ($1,000)[4]		680.00	937.20				
53	DESULFURIZATION SYSTEMS ($1,000)							
54	STACKS ($1,000)	59.00	194.10	839.20				
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	252.90	258.00	403.40				
56	REVENUES FROM SALE OF ASH ($1,000)							
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	252.90	259.00	403.40				
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)							

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R POTOMAC	R MAUMEE	B MAUMEE	W	W		
62	AVERAGE RATE OF WITHDRAWAL (CFS)	111.80	309.00	1,100.27	1.50	6.43		
63	AVERAGE RATE OF DISCHARGE (CFS)	111.70	309.00	1,100.27				
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.96 .42	2.66	9.46	.50	5.35		
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG DEC	AUG DEC	AUG DEC		SEP FEB		
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	81.00 51.00	80.00 39.00	82.10 47.70				
67	AT OUTFALL, SUMMER - WINTER	99.00 66.00	94.00 52.00	90.30 53.20	90.00 70.00	110.00 85.00		
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	1,190.00	2,059.00					
69	- WINTER	3,340.00	7,393.00					
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]	H			M	C		
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.04	.55	.07	9.08 .13	27.25 .09		
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	50.90	21.33	20.00	.33	.50		
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	4.75						
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	.50						
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.05	52.82	300.00	2.77	12.91		
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES YES	YES YES	YES YES		
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	PS	OT	PS	PS		
78	RECEIVING WATER BODY			B MAUMEE				
79	PONO DISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING							
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	10.00 8.50	7.90	8.16				
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	4.20	81.60	62.00				
82	- ASH SETTLING	30.97						
		20,968.00	.07	17,000.00				

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	4 181.00	5 314.50	4 638.00				
84	ONCE THROUGH COOLING (SALINE)							
85	COOLING PONDS							
86	COOLING TOWER(S)							
87	COMBINATION[21]				4 99.00	4 504.50		
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1923 1957	1918 1951	1955 1968	1949 1954	1958 1967		
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	12.00 18.00	14.00 21.50	9.50 13.40	15.00 18.00	21.00 28.00		
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	349.50	607.00	1,149.00	110.00	422.00		
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	349.50	607.00	1,149.00				

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)							
93	COOLING PONDS ($1,000)	657.00	1,158.00	3,298.00				
94	COOLING TOWERS ($1,000)				587.00	1,089.00		

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	29.50	42.00	23.30				
96	COST OF CHEMICAL ADDITIVES ($1,000)		4.00	22.00	30.00	21.00		

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	30.10	63.00	83.40				
98	COST OF CHEMICAL ADDITIVES ($1,000)	7.60	12.00	6.40	.30	26.00		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	UGI CORP	THE UNITED ILLUMINATING CO.	THE UNITED ILLUMINATING CO.	THE UNITED ILLUMINATING CO.	UNION ELECTRIC CO.		
	LUZERNE ELEC. DIVISION						
NAME OF PLANT	MUNLOCK CREEK	BRIDGEPORT HARBOR	ENGLISH	STEEL	ASHLEY		
UTILITY-PLANT CODE	489000-0100	489300-0100	489500-0200	489500-0400	312500-0100		
STATE	PENNSYLVANIA	CONNECTICUT	CONNECTICUT	CONNECTICUT	MISSOURI		
COUNTY	LUZERNE	FAIRFIELD	NEW HAVEN	FAIRFIELD	CITY OF ST. LOUIS		
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	191 02	043 01	042 01	043 01	070 07		
PLANT CAPACITY (MW)	87.00	660.30	146.30	153.30	70.00		
ANNUAL GENERATION (MWH)[3]	306,300	3,720,900	352,700	296,600	9,500		
PLANT HEAT RATE (BTU/KWH)[3]	16,323	10,136	17,279	20,224			

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	269.60						
AVERAGE HEAT CONTENT (BTU/LB)	8,732						
AVERAGE SULFUR CONTENT (%)	.70						
AVERAGE ASH CONTENT (%)	23.53						
AVERAGE MOISTURE CONTENT (%)	19.79						
OIL: CONSUMPTION (1,000 BARRELS)	30.20	6,207.00	996.00	985.00	630.40		
AVERAGE HEAT CONTENT (BTU/GAL)	138,300	144,956	145,664	145,001	149,737		
AVERAGE SULFUR CONTENT (%)	.12	.39	.44	.42	2.09		
GAS: CONSUMPTION (1,000 MCF)							
AVERAGE HEAT CONTENT (BTU/CU.FT.)							

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	6	3	14	27	5		
- NO. OF WET BOTTOM	3	2					
- NO. WITH FLY ASH REINJECTION	2	3					
- NO. WITH MECHANICAL PRECIPITATORS							
- NO. WITH ELECTROSTATIC PRECIPITATORS		3	2	7	3		
- NO. WITH COMBINATION PRECIPITATORS[4]	2						
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]							
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	40.00	12.00 30.00	19.00 30.00	19.00 30.00	23.00		
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	93.80 95.00	97.50 99.30	93.00	93.00	90.00		
TESTED, LOW - HIGH	91.00						
EST., LOW - HIGH	90.00	33.00 68.00	74.00 73.00	30.00 74.00			
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	7.34	.37	.19	.11	.01		
SULFUR DIOXIDE (1,000 TONS)	3.72	8.12	2.21	1.39	4.49		
NITROGEN OXIDES (1,000 TONS)	4.08	13.69	3.30	2.17	1.41		
STACKS: - TOTAL NO.	3	3	6	7	4		
- HEIGHT (FEET), LOWEST - HIGHEST[8]	203.00 338.00	203.00 498.00	233.00 233.00	175.00 182.00	180.00 186.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]							
TOTAL ASH: COLLECTED (1,000 TONS)[10]	33.00	.83	.20	.10			
SOLD (1,000 TONS)[11]		.03					
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)		2,167.30	247.94	383.53	364.00		
ELECTROSTATIC PRECIPITATORS ($1,000)	1,633.00						
COMBINATION PRECIPITATORS ($1,000)[4]							
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)	141.00	914.23	155.93	191.48	92.00		
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	350.00	75.40	10.00	22.00			
REVENUES FROM SALE OF ASH ($1,000)		1.40					
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	330.00	101.40	15.00	30.00			
TOTAL BYPRODUCT SALES REVENUES ($1,000)		1.40					

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R SUSQUEHANNA	H BRIDGEPORT	R MILL	H BRIDGEPORT	R MISSI331PPI		
AVERAGE RATE OF WITHDRAWAL (CFS)	180.00	645.34	198.39	116.12	8.00		
AVERAGE RATE OF DISCHARGE (CFS)	180.00	645.34	198.39	116.12	8.00		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.55	5.55	1.71	1.00 .07			
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG OEC	AUG JAN	AUG JAN	AUG JAN	AUG OEC		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	78.00 42.00	80.00 49.70	90.60 31.00	81.00 43.00	86.00 50.00		
AT OUTFALL, SUMMER - WINTER	90.00 52.00	97.00 71.70	101.60 63.00	98.00 62.50	100.00 64.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	4,000.00	259.90	43.00	64.80	167,000.00		
- WINTER	33,000.00	184.30	48.20	37.12	215,200.00		
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, ON[16]	H						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.50	1.13	3.40	5.80	35.90		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	1.00		10.25	12.50			
LIME (TONS), COOLING WATER - BOILER MAKEUP					322.07		
ALUM (TONS), COOLING WATER - BOILER MAKEUP							
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	10.00		302.24	11.62			
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES YES	YES YES	YES YES	YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[16]	OT	P3/ST	ST/SW	P3	P3		
RECEIVING WATER BODY	R SUSQUEHANNA		R MILL		R MISS1S3IPPI		
POND DISCHARGE[17] PH, BOILER BLOWDOWN - ASH SETTLING	6.80	6.50			8.10		
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80.00	3,000.00			1,331.00		
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	130,000.00				72.00		

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[18]: ONCE THROUGH COOLING (FRESH)	3 97.60				4 70.00		
ONCE THROUGH COOLING (SALINE)		1 399.50	8 146.23	11 133.50			
COOLING POND(S)							
COOLING TOWER(S)							
COMBINATIONS[19]		2 261.00					
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1925 1939	1937 1968	1929 1953	1923 1950	1917 1920		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[20]	10.00 13.00	11.20 17.90	7.40 18.20	13.10 18.70	20.00		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	219.00	837.01	581.08	420.16	283.00		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)		837.01	581.08	420.16	285.00		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	733.00	3,398.63	873.70	1,122.00	120.00		
COOLING PONDS ($1,000)							
COOLING TOWERS ($1,000)		100.18					

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		173.20	162.50	68.30	10.00		
COST OF CHEMICAL ADDITIVES ($1,000)	4.00	2.10	11.20	4.30			

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)		139.10	101.90	120.30	14.00		
COST OF CHEMICAL ADDITIVES ($1,000)	2.00	35.50	6.90	8.20	50.00		

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	UNION ELECTRIC CO.	UNION ELECTRIC CO.	UNION ELECTRIC CO.	UNION ELECTRIC CO.	UNION ELECTRIC CO.
NAME OF PLANT	CAHOKIA	NERANEC	SIOUX	VENICE #2	LABADIE
UTILITY-PLANT CODE	512500-0200	512500-0400	512500-0700	512500-1100	512500-1200
STATE	ILLINOIS	MISSOURI	MISSOURI	ILLINOIS	MISSOURI
COUNTY	ST. CLAIR	ST. LOUIS	ST. CHARLES	MADISON	FRANKLIN
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	[illegible] 07	070 07	[illegible] 07	070 07	070 11
PLANT CAPACITY (MW)	300.00	923.00	1,100.00	474.00	2,482.00
ANNUAL GENERATION (MWH) 3/	260,700	3,656,100	3,357,500	1,043,800	10,667,700
PLANT HEAT RATE (BTU/KWH) 3/	19,591	10,499	10,204	13,498	9,832

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	109.20	1,619.90	1,560.00	457.00	4,682.30
AVERAGE HEAT CONTENT (BTU/LB)	10,982	11,810	10,939	11,912	11,134
AVERAGE SULFUR CONTENT (%)	2.96	1.53	2.99	1.31	3.07
AVERAGE ASH CONTENT (%)	11.31	9.39	15.27	7.90	9.80
AVERAGE MOISTURE CONTENT (%)	11.74	9.29	8.45	10.19	11.88
OIL: CONSUMPTION (1,000 BARRELS)	430.70		10.00	553.70	155.30
AVERAGE HEAT CONTENT (BTU/GAL)	150,914		137,000	136,589	137,000
AVERAGE SULFUR CONTENT (%)	2.82		.30	.29	.30
GAS: CONSUMPTION (1,000 MCF)		114.00			
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,050			

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	22	4	2	8	4
- NO. OF WET BOTTOM			2		
- NO. WITH FLY ASH REINJECTION					
- NO. WITH MECHANICAL PRECIPITATORS					
- NO. WITH ELECTROSTATIC PRECIPITATORS					
- NO. WITH COMBINATION PRECIPITATORS 4/	8	4	2	8	4
- NO. WITH DESULFURIZATION SYSTEMS					
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/					
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	23.00	23.00	23.00	23.00	23.00
TESTED, LOW - HIGH					
ESTIMATED, LOW - HIGH					
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	90.00	98.00	99.60	90.00 95.00	99.50
TESTED, LOW - HIGH	98.30	97.40		90.50	96.00
EST., LOW - HIGH	95.00	98.00	99.00	97.00	99.00
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH					
TESTED, LOW - HIGH					
ESTIMATED, LOW - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	.46	2.59	.24	1.09	3.90
SULFUR OIOXIDE (1,000 TONS)	10.40	48.58	91.43	12.27	281.91
NITROGEN OXIDES (1,000 TONS)	1.77	14.60	42.92	4.65	42.49
STACKS: - TOTAL NO.	6	4	2	8	3
- HEIGHT (FEET), LOWEST - HIGHEST 8/	329.00	350.00	600.00	237.00	700.00
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/					
TOTAL ASH: COLLECTED (1,000 TONS) 10/	12.30	149.90	228.20	36.40	455.20
SOLD (1,000 TONS) 11/		129.60			
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/					
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)					
ELECTROSTATIC PRECIPITATORS ($1,000)	847.00	2,973.00	5,885.00	1,017.00	12,276.00
COMBINATION PRECIPITATORS ($1,000) 4/					
DESULFURIZATION SYSTEMS ($1,000)					
STACKS ($1,000)					
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	318.00	850.00	1,525.00	418.00	7,521.00
REVENUES FROM SALE OF ASH ($1,000)	38.25	135.00	106.90	62.80	291.30
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)		156.00			
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)					
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	38.25	772.20	3,618.40	62.80	4,865.10
TOTAL BYPRODUCT SALES REVENUES ($1,000)		156.00			

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MISSISSIPPI	R MISSISSIPPI	R MISSISSIPPI	R MISSISSIPPI	R MISSOURI
AVERAGE RATE OF WITHDRAWAL (CFS)	92.00	448.00	390.00	247.00	1,007.00
AVERAGE RATE OF DISCHARGE (CFS)	92.00	448.00	390.00	247.00	1,007.00
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/					
PEAK LOAD MONTH : SUMMER - WINTER 15/	[illegible]	[illegible]	[illegible]	[illegible]	8.66
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	AUG OEC	AUG OEC	AUG OEC	AUG OEC	AUG OEC
AT OUTFALL, SUMMER - WINTER	84.00 47.00	49.00	41.00	47.00	47.00
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	104.00 59.00	69.00	62.00	78.00	114.00 77.00
- WINTER	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O 16/	251,200.00	251,200.00	115,900.00	251,200.00	135,300.00
CHEMICAL ADDITIVES: PHOSPHATE (TONS) 1, COOLING WATER - BOILER MAKEUP					C
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	8.20	8.75		3.25	6.52
LIME (TONS), COOLING WATER - BOILER MAKEUP	1.28	634.61	538.20		2,770.51
ALUM (TONS), COOLING WATER - BOILER MAKEUP	52.75	140.75	80.00		635.09
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		181.99			
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 16/	SW	ST	OT	ST	OT
RECEIVING WATER BODY	R MISSISSIPPI	R MISSISSIPPI	R MISSISSIPPI	R MISSISSIPPI	O ASH PONO
POND DISCHARGE: 18/ PH, BOILER BLOWDOWN - ASH SETTLING			6.40		8.20 8.20
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			50.00		49.00 49.00
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
					116,560.00

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING: 19/ ONCE THROUGH COOLING (FRESH)	6 310.00	4 923.00	2 1,099.60	6 474.00	4 2,482.00
ONCE THROUGH COOLING (SALINE)					
COOLING PONDS					
COOLING TOWERS					
COMBINATION 20/					
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1924 1937	1953 1961	1967 1968	1942 1950	1970
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 21/	20.00	22.30	20.90	20.00	29.70
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	857.00	928.00	1,040.00	890.00	1,676.00
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	857.00	928.00	1,040.00	890.00	1,908.00

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)					
COOLING PONDS ($1,000)	335.00	7,638.00	4,259.00	7,498.00	19,080.00
COOLING TOWERS ($1,000)					

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	29.00	176.00	146.00	339.00	512.00
COST OF CHEMICAL ADDITIVES ($1,000)		15.00			

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	41.00	128.00	165.00	151.00	253.00
COST OF CHEMICAL ADDITIVES ($1,000)	13.00	78.00	94.00	6.00	315.00

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	UNITED POWER ASSOC.	UNITED POWER ASSOC.	UNIVERSITY OF ILLINOIS	UPPER PENINSULA GEN. CO.	UTAH POWER & LIGHT CO.	
NAME OF PLANT	STANTON	ELK RIVER	ABBOTT	PRESQUE ISLE	CARBON	
UTILITY-PLANT CODE	513500-0100	513500-0200	514500-0100	516000-0100	517000-0500	
STATE	NORTH DAKOTA	MINNESOTA	ILLINOIS	MICHIGAN	UTAH	
COUNTY	MERCER	SHERBURNE	CHAMPAIGN	MARQUETTE	CARBON	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	172 10	192 07	044 05	126 04	019 14	
PLANT CAPACITY (MW)	172.00	48.00	30.00	174.70	166.00	
ANNUAL GENERATION (MWH)[3]	1,092,100	183,600	78,631	1,136,400	411,800	
PLANT HEAT RATE (BTU/KWH)[3]	11,502	13,558	38,464	11,283	11,762	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	898.00	29.20		516.46	452.21	
AVERAGE HEAT CONTENT (BTU/LB)	7,012	11,566		12,415	12,094	
AVERAGE SULFUR CONTENT (%)	.69	3.57		1.30	.53	
AVERAGE ASH CONTENT (%)	7.21	2.15		8.20	9.39	
AVERAGE MOISTURE CONTENT (%)	35.04	10.41		6.30	6.87	
OIL: CONSUMPTION (1,000 BARRELS)	6.10	238.00	519.83	5.10	3.46	
AVERAGE HEAT CONTENT (BTU/GAL)	140,000	138,000	138,261	135,400	137,000	
AVERAGE SULFUR CONTENT (%)	.50	3.70	.20	.10	.20	
GAS: CONSUMPTION (1,000 MCF)		371.00				
AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,001				

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	1	3	7	4	2	
- NO. OF WET BOTTOM				3		
- NO. WITH FLY ASH REINJECTION		1	3		2	
- NO. WITH MECHANICAL PRECIPITATORS	1	3	7	4		
- NO. WITH ELECTROSTATIC PRECIPITATORS				4		
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	23.00	30.00	15.00 30.00	18.00 23.00	21.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	85.00	75.00 86.00	92.00 95.20	85.00	75.00 80.70	
TESTED, LOW - HIGH	61.80	13.00 86.00				
ESTIMATED, LOW - HIGH	62.00	11.00 86.00			75.00 81.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH				95.00		
TESTED, LOW - HIGH						
EST., LOW - HIGH				90.00		
DESULFURIZATION SYSTEN EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	20.91	.37	.01	2.88	7.81	
SULFUR OIOXIDE (1,000 TONS)	12.15	5.02	.35	13.16	4.70	
NITROGEN OXIDES (1,000 TONS)	8.10	.82	1.15	7.26	4.08	
STACKS: - TOTAL NO.	1	3	2	4	2	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	255.00	68.00	200.00 204.00	194.00	200.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]	48.30	1.60		38.70	33.00	
SOLD (1,000 TONS)[11]					.03	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	115.50	60.00	103.60	119.00	173.88	
ELECTROSTATIC PRECIPITATORS ($1,000)				4,481.00		
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTENS ($1,000)						
STACKS ($1,000)	150.00	15.00	47.90	115.00	119.89	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	62.00	11.00		60.30	83.00	
REVENUES FROM SALE OF ASH ($1,000)					.13	
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	62.00	11.00		60.30	83.00	
TOTAL BYPRODUCT SALES REVENUES ($1,000)					.13	

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R MISSOURI	R MISSISSIPPI	N	R OEAO	R PRICE	
AVERAGE RATE OF WITHDRAWAL (CFS)	223.00	48.60	.10	183.80	3.00	
AVERAGE RATE OF DISCHARGE (CFS)	223.00	48.50	.05	183.80	1.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.92 .10	.42 .10	.10	1.56	2.00	
PEAK LOAD MONTH : SUMMER - WINTER[15]	OCT DEC	OCT DEC		JUL NOV	JUL DEC	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	82.00 38.00	86.00 33.00		72.00 54.00		
AT OUTFALL, SUMMER - WINTER	78.00 57.00	86.00 65.00		96.00 77.00	96.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	21,200.00	5,370.00			15.00	
- WINTER	22,800.00					
FREQUENCY OF TEMPERATURE MONITORING: C, M, O, O[16]		C				
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.23	.05	.30	2.30	.40 .30	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	180.50	6.50	102.59	.25	.70	
LIME (TONS), COOLING WATER - BOILER MAKEUP	32.00	6.50				
ALUM (TONS), COOLING WATER - BOILER MAKEUP	13.00	1.26		8.00	8.00	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP						
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[17]	ST	PS	PS	ST	ST	
RECEIVING WATER BODY						
POND DISCHARGE[18]: PH, BOILER BLOWDOWN - ASH SETTLING	9.00 9.90	7.90 10.70		8.00	9.80	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	.05 24.00					
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	185.00			1,350.00	21,700.00	
- ASH SETTLING	19,000.00					

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[19]: ONCE THROUGH COOLING (FRESH)	1 172.00	3 48.00		4 174.70		
ONCE THROUGH COOLING (SALINE)						
COOLING PONDS)			7 30.00		2 188.64	
COOLING TOWERS)						
COMBINATION[20]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1966	1951 1959	1953 1960	1955 1966	1954 1957	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[21]	16.00	11.50 15.90	10.00	20.00 26.00	19.00 20.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	220.00	112.00	90.00	171.00	221.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTENS (CFS)	220.00	112.00		185.00		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	650.00	500.00		1,166.00		
COOLING PONDS ($1,000)			194.00		480.51	
COOLING TOWERS ($1,000)						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	10.00	2.00	11.88	7.70	45.10	
COST OF CHEMICAL ADDITIVES ($1,000)			2.00	2.00	40.50	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	67.00	17.00	20.57	18.00	15.80	
COST OF CHEMICAL ADDITIVES ($1,000)	36.00	3.00	8.85	3.40	1.70	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	UTAH POWER & LIGHT CO.	UTAH POWER & LIGHT CO.	UTAH POWER & LIGHT CO.	UTAH POWER & LIGHT CO.	KEY WEST UTILS 80		
NAME OF PLANT	GADSBY	HALE	JORDAN	NAUGHTON	KEY WEST		
UTILITY-PLANT CODE	517000-1000	517000-1500	517000-1700	517000-2000	518000-0100		
STATE	UTAH	UTAH	UTAH	WYOMING	FLORIDA		
COUNTY	SALT LAKE	UTAH	SALT LAKE	LINCOLN	MONROE		
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	220 16	220 16	220 16	243 16	050 03		
PLANT CAPACITY (MW)	251.64	59.00	25.00	707.20	59.50		
ANNUAL GENERATION (MWH)[3]	1,294,900	164,700	10,000	4,630,200	166,100		
PLANT HEAT RATE (BTU/KWH)[3]	12,049	13,643	19,940	10,434	14,198		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	428.18	85.98		2,496.15			
AVERAGE HEAT CONTENT (BTU/LB)	12,072	12,013		9,509			
AVERAGE SULFUR CONTENT (%)	.50	.53		.50			
AVERAGE ASH CONTENT (%)	8.51	9.80		4.50			
AVERAGE MOISTURE CONTENT (%)	7.44	6.97		23.00			
OIL: CONSUMPTION (1,000 BARRELS)	302.30		32.62	5.63	379.74		
AVERAGE HEAT CONTENT (BTU/GAL)	146,730		144,420	140,000	147,842		
AVERAGE SULFUR CONTENT (%)	.35		.35	.60	1.78		
GAS: CONSUMPTION (1,000 MCF)	3,600.94	178.73	.01	.01			
AVERAGE HEAT CONTENT (BTU/CU.FT.)	945	932	947	832			

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	3	1	2	3	5		
- NO. OF WET BOTTOM							
- NO. WITH FLY ASH REINJECTION							
- NO. WITH MECHANICAL PRECIPITATORS				2	3		
- NO. WITH ELECTROSTATIC PRECIPITATORS				1			
- NO. WITH COMBINATION PRECIPITATORS[4]	2						
- NO. WITH DESULFURIZATION SYSTEMS							
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	18.00	27.00	18.00	21.00	10.00 17.00		
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH				80.00	80.00		
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH				80.00	80.00		
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	97.00			96.00			
TESTED, LOW - HIGH	96.70 99.00	97.00		72.70			
EST., LOW - HIGH		97.00					
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH							
TESTED, LOW - HIGH							
ESTIMATED, LOW - HIGH							

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.78	.16	.01	22.16	.02		
SULFUR DIOXIDE (1,000 TONS)	4.55	.89	.04	24.47	2.27		
NITROGEN OXIDES (1,000 TONS)	5.01	.68	.07	22.48	.84		
STACKS: - TOTAL NO.	3	1	1	3	5		
- HEIGHT (FEET), LOWEST - HIGHEST[8]	250.00	160.00	225.00	200.00 250.00	100.00 157.00		
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]							
TOTAL ASH: COLLECTED (1,000 TONS)[10]	36.40	8.00		106.00	.18		
SOLD (1,000 TONS)[11]					.03		
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)							
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]							
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)							
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)				316.33			
ELECTROSTATIC PRECIPITATORS ($1,000)				814.00			
COMBINATION PRECIPITATORS ($1,000)[4]	680.75						
DESULFURIZATION SYSTEMS ($1,000)							
STACKS ($1,000)	327.10	9.30	28.52	881.91			
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	86.29	5.90		84.20	3.00		
REVENUES FROM SALE OF ASH ($1,000)							
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)							
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)							
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	86.29	5.90		84.20	3.00		
TOTAL BYPRODUCT SALES REVENUES ($1,000)							

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, D, C, W, M & O EXPL. IN FOOTNOTES)	R JORDAN	R PROVO	R JORDAN	R HAMS FORK	W		
AVERAGE RATE OF WITHDRAWAL (CFS)	3.63	60.00	60.00	17.60	47.00		
AVERAGE RATE OF DISCHARGE (CFS)	2.60	60.00	60.00		47.00		
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.03		.52	17.60	.40		
PEAK LOAD MONTH : SUMMER - WINTER[15]	JUL DEC	JUL DEC	JUL DEC		AUG JAN		
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	73.00 41.00	10.50 45.00	73.00 47.00		79.00 79.00		
AT OUTFALL, SUMMER - WINTER	84.00 77.00	19.00 90.00	84.00 77.00		93.00 92.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	4,857.00	210.00	4,857.00		47.00		
- WINTER	2,645.00	420.00	2,645.00		47.00		
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]					H		
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	6.00	.02	.02	.13	.13		
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.30	.03	.03	39.99	18.00		
LIME (TONS), COOLING WATER - BOILER MAKEUP				36.50			
ALUM (TONS), COOLING WATER - BOILER MAKEUP							
ZINC CHLORIDE (TONS), COOLING WATER - BOILER MAKEUP	23.00			1.50			
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES YES	YES	YES	YES YES	YES		
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	PS	ST	PS	ST	PS		
RECEIVING WATER BODY							
POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING				8.40			
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING							
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN							
- ASH SETTLING				5,300.00			

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)		1 15.00	1 25.00		5 61.75		
ONCE THROUGH COOLING (SALINE)							
COOLING POND(S)							
COOLING TOWER(S)	3 251.64			3 710.80			
COMBINATION[20]							
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1951 1955	1936	1929	1963 1971	1952 1966		
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	11.00 13.00	7.00	11.00	24.50 29.30	14.00		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	494.50	461.00	85.00	509.00	161.00		
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)			85.00		154.68		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)		46.41	29.67				
COOLING PONDS ($1,000)							
COOLING TOWERS ($1,000)	1,805.55			2,582.70			

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	54.80		.10	37.30	30.00		
COST OF CHEMICAL ADDITIVES ($1,000)	89.20			29.10			

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	52.30	4.20		50.00	120.00		
COST OF CHEMICAL ADDITIVES ($1,000)	14.90	.50	.10	23.40	7.25		

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	KEY WEST UTILS BD	VERO BEACH MUN PWR SYS	VINELAND, CITY OF	VIRGINIA PUBLIC UTILS CORP	VIRGINIA ELECTRIC & POWER CO.				1
2										2
3										3
4	NAME OF PLANT	STOCK ISLAND	VERO BEACH	ODWN	VIRGINIA	GREMO BLUFF				4
5	UTILITY-PLANT CODE	518000-0200	521500-0100	523500-0100	524750-0100	525000-0200				5
6	STATE	FLORIDA	FLORIDA	NEW JERSEY	MINNESOTA	VIRGINIA				6
7	COUNTY	MONROE	INDIAN RIVER	CUMBERLAND	ST. LOUIS	FLUVANNA				7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	050 03	050 03	150 02	129 01	224 02				8
9	PLANT CAPACITY (MW)	37.00	62.00	76.45	36.00	254.28				9
10	ANNUAL GENERATION (MWH)[3]	178,200	246,000	309,600	64,200	1,137,600				10
11	PLANT HEAT RATE (BTU/KWH)[3]	11,869	14,426	14,193	34,871	11,251				11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)					95.53		505.80		12
13	AVERAGE HEAT CONTENT (BTU/LB)					11,284		12,391		13
14	AVERAGE SULFUR CONTENT (%)					.89		.89		14
15	AVERAGE ASH CONTENT (%)					11.09		10.99		15
16	AVERAGE MOISTURE CONTENT (%)					12.73		5.94		16
17	OIL: CONSUMPTION (1,000 BARRELS)	339.36	203.30	716.11				28.39		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	148,348	147,765	146,112				137,000		18
19	AVERAGE SULFUR CONTENT (%)	2.33	1.98	.88				.10		19
20	GAS: CONSUMPTION (1,000 MCF)		2,168.10			114.73				20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)		1,055			1,000				21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	1	3	5	4	4				22
23	- NO. OF WET BOTTOM					2				23
24	- NO. WITH FLY ASH REINJECTION				3					24
25	- NO. WITH MECHANICAL PRECIPITATORS	1	3	4	4	2				25
26	- NO. WITH ELECTROSTATIC PRECIPITATURS			1		4				26
27	- NO. WITH COMBINATION PRECIPITATORS[4]									27
28	- NO. WITH DESULFURIZATION SYSTEMS									28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	10.00	12.00 13.00	16.00 50.00	6.20 13.30	18.00 25.00				29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	80.00	85.00 92.00	78.00 92.80	80.00 85.00	85.30 87.20				30
31	TESTED, LOW - HIGH		85.00 92.00							31
32	ESTIMATED, LOW - HIGH	85.00		90.00 92.80	80.00 85.00					32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH			98.00		99.38				33
34	TESTED, LOW - HIGH									34
35	EST., LOW - HIGH			98.00		99.70 99.75				35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	85.00								36
37	TESTED, LOW - HIGH	68.00								37
38	ESTIMATED, LOW - HIGH	70.00								38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	.01		.01	2.03	.13				39
40	SULFUR DIOXIDE (1,000 TONS)	2.70	1.35	2.11	1.67	8.82				40
41	NITROGEN OXIDES (1,000 TONS)	.76	.84	1.58	.78	4.55				41
42	STACKS: - TOTAL NO.	1	2	6	3	4				42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	110.00	200.00	219.79 219.98	130.00 179.00	140.00 200.00				43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	.05								44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	.08	.03		.83	20.10				45
46	SOLD (1,000 TONS)[11]									46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)									47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]									48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)									49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			75.90		356.00				50
51	ELECTROSTATIC PRECIPITATORS ($1,000)			65.90		7,576.00				51
52	COMBINATION PRECIPITATORS ($1,000)[4]									52
53	DESULFURIZATION SYSTEMS ($1,000)	800.00								53
54	STACKS ($1,000)		40.80	297.70		166.00				54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	2.00				49.60				55
56	REVENUES FROM SALE OF ASH ($1,000)									56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)									57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)									58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	45.80				51.80				59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)									60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, R, C, W, M & O EXPL. IN FOOTNOTES)	W	R INDIAN	M	L SILVER	R JAMES				61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	74.00	180.26			190.90				62
63	AVERAGE RATE OF DISCHARGE (CFS)	74.00	179.12			190.90				63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.64	1.55 1.14	20.40		1.64				64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG JAN	SEP OEC	AUG OEC	JUL DEC	AUG JAN				65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	78.00 78.00	87.00 68.00		80.00 40.00	92.00 52.00				66
67	AT OUTFALL, SUMMER - WINTER	90.00 90.00	91.00 82.00		90.00 50.00	109.00 76.00				67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	74.00				5,286.00				68
69	- WINTER	74.00				5,073.00				69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C[16]	H	C	H						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS)[1], COOLING WATER - BOILER MAKEUP	.14	.20	.06 .51		.55				71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	28.60	11.05	7.94 1.41		1.15				72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP									73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP									74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP		24.00	5.49		72.20 2.50				75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES	YES	YES YES		YES YES				76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	SW	PS		PS	ST				77
78	RECEIVING WATER BODY					R JAMES				78
79	POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING									79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					7.50				80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN					250.00				81
82	- ASH SETTLING									82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)				2 26.00	4 284.28				83
84	ONCE THROUGH COOLING (SALINE)	1 37.00	3 62.00							84
85	COOLING POND(S)			2 8.00						85
86	COOLING TOWER(S)			5 69.00						86
87	COMBINATION[21]									87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1972	1960 1970	1929 1969	1954 1960	1931 1958				88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	14.50	8.00	10.00 14.70	10.00	10.00 21.00				89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	66.00	223.00	208.00		380.60				90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	77.00	223.00			387.60				91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS ($1,000)					2,008.00				92
93	COOLING PONDS ($1,000)			125.70						93
94	COOLING TOWERS ($1,000)			252.70						94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	5.00				68.20				95
96	COST OF CHEMICAL ADDITIVES ($1,000)		3.80	6.65		5.60				96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	4.00				23.70				97
98	COST OF CHEMICAL ADDITIVES ($1,000)	13.52	6.40	1.78		6.40				98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	1	VIRGINIA ELECTRIC & POWER CO.		VIRGINIA ELECTRIC & POWER CO.		VIRGINIA ELECTRIC & POWER CO.		VIRGINIA ELECTRIC & POWER CO.		VIRGINIA ELECTRIC & POWER CO.		1
2		2											2
3		3											3
4	NAME OF PLANT	4	CHESTERFIELD		MOUNT STORM		PORTSMOUTH		POSSUM POINT		REEVES AVENUE		4
5	UTILITY-PLANT CODE	5	525000-0300		525000-0700		525000-0900		525000-1000		525000-1100		5
6	STATE	6	VIRGINIA		WEST VIRGINIA		VIRGINIA		VIRGINIA		VIRGINIA		6
7	COUNTY	7	CHESTERFIELD		GRANT		CHESAPEAKE		PRINCE WILLIAM		NORFOLK		7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	8	225 02		113 02		223 02		047 02		223 02		8
9	PLANT CAPACITY (MW)	9	1,484.44		1,662.48		649.64		491.00		100.00		9
10	ANNUAL GENERATION (MWH)[3]	10	7,600,100		5,500,800		3,327,000		2,784,600		154,700		10
11	PLANT HEAT RATE (BTU/KWH)[3]	11	10,509		10,076		10,453		10,920		14,366		11
	AIR QUALITY CONTROL DATA												
	FUEL CONSUMPTION DATA (ANNUAL)												
12	COAL: CONSUMPTION (1,000 TONS)	12			2,428.80						66.00		12
13	AVERAGE HEAT CONTENT (BTU/LB)	13			11,276						13,535		13
14	AVERAGE SULFUR CONTENT (%)	14			1.95						.85		14
15	AVERAGE ASH CONTENT (%)	15			18.77						4.15		15
16	AVERAGE MOISTURE CONTENT (%)	16			6.99						5.78		16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	12,766.60		272.09		5,585.90		4,858.20		75.50		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	148,767		137,000		148,258		148,954		139,639		18
19	AVERAGE SULFUR CONTENT (%)	19	2.31		.10		2.37		2.25		.17		19
20	GAS: CONSUMPTION (1,000 MCF)	20											20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21											21
	PLANT EQUIPMENT DATA												
22	BOILERS: - TOTAL NO.	22	6		3		4		4		2		22
23	- NO. OF WET BOTTOM	23									2		23
24	- NO. WITH FLY ASH REINJECTION	24											24
25	- NO. WITH MECHANICAL PRECIPITATORS	25	1				3						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	4		3		1		4		2		26
27	- NO. WITH COMBINATION PRECIPITATORS[4]	27	1										27
28	- NO. WITH DESULFURIZATION SYSTEMS	28											28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	29	28.00 35.00		23.00		17.00 28.00		20.00 28.00		23.50		29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30	85.00				85.00						30
31	TESTED, LOW - HIGH	31											31
32	ESTIMATED, LOW - HIGH	32	80.00				65.00						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	33	90.00 99.50	99.20	99.83		96.00	95.00	96.00	92.00	95.00		33
34	TESTED, LOW - HIGH	34	90.25 96.40	85.00	90.00		88.50						34
35	EST., LOW - HIGH	35	72.00		99.50		70.00		72.00		90.00		35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36											36
37	TESTED, LOW - HIGH	37											37
38	ESTIMATED, LOW - HIGH	38											38
	PLANT OPERATING DATA AND COST OF EQUIPMENT												
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	39	.59		1.94		.31		.23		.18		39
40	SULFUR OIOXIDE (1,000 TONS)	40	98.94		92.92		44.34		36.67		1.14		40
41	NITROGEN OXIDES (1,000 TONS)	41	28.15		22.46		12.29		10.71		.66		41
42	STACKS: - TOTAL NO.	42	6		3		4		4		2		42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	43	200.00 419.00	350.00	579.00	175.00	200.00	175.00	176.50	200.00	215.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	44	1.30										44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	45	1.90		375.00		.70		.70		2.30		45
46	SOLD (1,000 TONS)[11]	46											46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47											47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]	48											48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49											49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50	16.00				479.00						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51	4,223.00		23,730.00		565.00		1,839.00		312.00		51
52	COMBINATION PRECIPITATORS ($1,000)[4]	52	428.00										52
53	DESULFURIZATION SYSTEMS ($1,000)	53											53
54	STACKS ($1,000)	54	819.00		4,355.00		341.00		229.00		19.00		54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55	118.40		941.10		51.50		38.40		12.80		55
56	REVENUES FROM SALE OF ASH ($1,000)	56											56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57											57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58											58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	59	124.40		953.60		56.30		65.90		12.80		59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60											60
	WATER QUALITY CONTROL DATA												
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R JAMES		R STONY		R ELIZABETH		R POTOMAC		R ELIZABETH		61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	1,307.00		1,720.60		698.50		542.20		100.40		62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	1,307.00		1,719.60		698.50		542.20		100.40		63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	64	11.24		1.00		6.01		4.66		.86		64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	65	AUG JAN		AUG JAN		AUG JAN		AUG JAN		AUG JAN		65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	91.00 47.00		81.00 44.00		92.00 58.00		89.00 46.00		86.00 45.00		66
67	AT OUTFALL, SUMMER - WINTER	67	119.00 81.00		96.00 68.00		109.00 75.00		108.00 72.00		98.00 57.00		67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	16,000.00		RESERVOIR		21,000.00		22,000.00		10,000.00		68
69	- WINTER	69	16,000.00		RESERVOIR		21,000.00		22,000.00		10,000.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]	70											70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	2.00		1.04		2.50		.40		4.00		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	3.00	2.75	7.55		545.50		.70		1.00		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73											73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74	100.00										74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	130.00				33.00		.15				75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	76	YES	YES	YES	YES	YES	YES	YES		YES		76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	77	ST		ST		ST		ST		PS		77
78	RECEIVING WATER BODY	78	R JAMES		O COOLING POND				R POTOMAC				78
79	POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING	79	7.00		9.50 8.50		7.60		7.50				79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80	5.00		2,000.00		250.00		200.00				80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81			315.24								81
82	- ASH SETTLING	82	576.00		3,130.00		126,144.00						82
	COOLING FACILITY DATA												
83	NO. & CAPACITY (MW) OF COOLING TOWERS	83	6 1,484.44						4 491.00				83
84	ONCE THROUGH COOLING (SALINE)	84					4 550.00				2 100.00		84
85	COOLING PONDS(S)	85											85
86	COOLING TOWER(S)	86											86
87	COMBINATIONS[21]	87			2 1,140.48								87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1944 1969		1965		1953 1962		1948 1962		1941 1950		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	89	12.20 23.50		19.30		14.00 17.90		17.90 22.00		9.40 11.00		89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	1,633.56		1,126.00		794.70		543.30		100.40		90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	1,633.42				794.70		543.30		100.40		91
	CAPITAL COSTS OF COOLING FACILITIES												
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92	6,482.00				3,448.00		2,771.00		142.00		92
93	COOLING PONDS ($1,000)	93			6,523.00								93
94	COOLING TOWERS ($1,000)	94			380.00								94
	ANNUAL COOLING WATER EXPENSES												
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95	480.00		14.50		198.00		100.80		2.00		95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96	15.00		2.00		4.00		.10				96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES												
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97	300.00		42.20		376.00		6.00		2.00		97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	22.00		3.10		55.00		6.50		2.00		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	VIRGINIA ELECTRIC & POWER CO.	VIRGINIA ELECTRIC & POWER CO.	VIRGINIA ELECTRIC & POWER CO.	WASHINGTON P. POWER SUPPLY SYS.	WELLINGTON, CITY OF	
NAME OF PLANT	SURRY	12TH STREET	YORKTOWN	HANFORD	WELLINGTON	
UTILITY-PLANT CODE	525000-1250	525000-1300	525000-1400	531500-0100	538250-0100	
STATE	VIRGINIA	VIRGINIA	VIRGINIA	WASHINGTON	KANSAS	
COUNTY	SURRY	RICHMOND	YORK	BENTON	SUMNER	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	225 03	225 02	223 02	230 17	099 11	
PLANT CAPACITY (MW)	1,648.60	102.50	375.00	862.00	36.60	
ANNUAL GENERATION (MWH)[3]	6,857,300	7,700	1,798,000	4,878,000	53,800	
PLANT HEAT RATE (BTU/KWH)[3]	10,382	27,977	10,288		14,912	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)			450.60			
AVERAGE HEAT CONTENT (BTU/LB)			12,610			
AVERAGE SULFUR CONTENT (%)			1.63			
AVERAGE ASH CONTENT (%)			9.38			
AVERAGE MOISTURE CONTENT (%)			6.58			
OIL: CONSUMPTION (1,000 BARRELS)		36.90	1,001.00		7.43	
AVERAGE HEAT CONTENT (BTU/GAL)		139,000	146,560		139,660	
AVERAGE SULFUR CONTENT (%)		.10	.97		.02	
GAS: CONSUMPTION (1,000 MCF)			463.10		728.12	
AVERAGE HEAT CONTENT (BTU/CU.FT.)			1,123		1,042	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.		2	2		4	
- NO. OF WET BOTTOM		2				
- NO. WITH FLY ASH REINJECTION			1			
- NO. WITH MECHANICAL PRECIPITATORS			1			
- NO. WITH ELECTROSTATIC PRECIPITATORS		2				
- NO. WITH COMBINATION PRECIPITATORS[4]			1			
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]						
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH		32.00	15.00 - 22.00			
TESTED, LOW - HIGH			85.00			
ESTIMATED, LOW - HIGH			84.60			
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH			84.00			
TESTED, LOW - HIGH		90.00	96.00			
EST., LOW - HIGH		90.50	98.00			
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH		70.00	98.00			
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)			2.85			
SULFUR DIOXIDE (1,000 TONS)		.01	17.65			
NITROGEN OXIDES (1,000 TONS)		.08	6.19		.16	
STACKS: - TOTAL NO.		1	1		4	
- HEIGHT (FEET), LOWEST - HIGHEST[8]		150.00	325.00		66.00 - 70.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]			41.00			
SOLD (1,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)			203.00			
ELECTROSTATIC PRECIPITATORS ($1,000)		191.00				
COMBINATION PRECIPITATORS ($1,000)[4]			1,296.00			
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)		10.00	214.00			
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)		7.10	175.30			
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]		7.10	190.30			
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R JAMES	O KANAWHA CANAL	R YORK	R COLUMBIA	M	
AVERAGE RATE OF WITHDRAWAL (CFS)	2,340.00	296.40	445.00	836.00	14.81	
AVERAGE RATE OF DISCHARGE (CFS)	2,340.00	296.40	445.00	836.00	14.81	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	20.12	2.95	3.83	7.19		
PEAK LOAD MONTH : SUMMER - WINTER[15]	AUG JAN	AUG JAN	AUG JAN	SEP JAN	JUL JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	88.00 85.00	89.00	88.00 53.00	67.00 43.00		
AT OUTFALL, SUMMER - WINTER	98.00 94.00	104.00	105.00 63.00	100.00 93.00		
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	130,000.00	7,876.00	130,000.00	56,450.00	23.61	
- WINTER	130,000.00	7,068.00	130,000.00	83,843.00	13.88	
FREQUENCY OF TEMPERATURE MONITORING: C, M, O, ONE	C				O	
CHEMICAL ADDITIVES: PHOSPHATE (TONS)[1], COOLING WATER - BOILER MAKEUP	6.37	.13	.10		.03	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		.30	200.00		.04	
LIME (TONS), COOLING WATER - BOILER MAKEUP			.50			
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP			58.00		.90	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[16]	YES	YES	YES YES	YES YES	YES YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OTH[18]	ST	SW	ST	ST	PS	
RECEIVING WATER BODY	R JAMES	R JAMES		O TILE FIELD		
POND DISCHARGE?[19] PH, BOILER BLOWDOWN - ASH SETTLING			6.50			
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING			1,268.00			

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)		4 102.50		2 862.00		
ONCE THROUGH COOLING (SALINE)	2 1,648.60		2 375.00			
COOLING POND(S)						
COOLING TOWER(S)					4 34.00	
COMBINATION[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM						
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	1972	1919 1940	1957 1958	1965	1939 1970	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	15.00	10.00	14.80 14.90	32.00	18.40 23.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	3,740.00	296.40	447.00	1,250.00	82.16	
	3,740.00	296.40	490.00	1,250.00		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	25,677.00	72.00	3,026.00	3,056.00		
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)					642.00	

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	533.10	2.00	138.90	53.00		
COST OF CHEMICAL ADDITIVES ($1,000)			6.60		3.53	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	46.70	6.00	32.40	69.25		
COST OF CHEMICAL ADDITIVES ($1,000)	3.10	.30	22.10	2.51	.31	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	WEST PENNSYLVANIA POWER CO.	WEST PENNSYLVANIA POWER CO.	WEST PENNSYLVANIA POWER CO.	WEST PENNSYLVANIA POWER CO.	WEST PENNSYLVANIA POWER CO.		
NAME OF PLANT	ARMSTRONG	MILESBURG	MITCHELL	SPRINGDALE	HATFIELD		
UTILITY-PLANT CODE	542000-0100	542000-0300	542000-0400	542000-0500	542000-0600		
STATE	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA		
COUNTY	ARMSTRONG	CENTRE	WASHINGTON	ALLEGHENY	GREENE		
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	197 05	195 02	197 05	197 05	197 05		
PLANT CAPACITY (MW)	326.40	46.00	448.70	215.38	1,728.00		
ANNUAL GENERATION (MWH)[3]	2,111,300	273,700	2,569,600	1,171,400	9,469,300		
PLANT HEAT RATE (BTU/KWH)[3]	10,228	12,907	10,490	11,266	9,496		

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	951.60	147.40	1,059.60	496.10	3,740.40	
AVERAGE HEAT CONTENT (BTU/LB)	11,327	11,962	12,700	13,266	12,007	
AVERAGE SULFUR CONTENT (%)	2.67	2.01	2.17	1.56	2.46	
AVERAGE ASH CONTENT (%)	17.49	13.89	9.65	7.08	15.39	
AVERAGE MOISTURE CONTENT (%)	5.59	6.82	6.46	5.88	4.70	
OIL: CONSUMPTION (1,000 BARRELS)	4.42	.99		4.06	17.55	
AVERAGE HEAT CONTENT (BTU/GAL)	139,000	139,000		139,000	139,000	
AVERAGE SULFUR CONTENT (%)	.25	.25		.03	.25	
GAS: CONSUMPTION (1,000 MCF)			29.30			
AVERAGE HEAT CONTENT (BTU/CU.FT.)			1,050			

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	2	4	5	3	
- NO. OF WET BOTTOM				3		
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS	2		4	5	3	
- NO. WITH COMBINATION PRECIPITATORS[4]		2				
- NO. WITH OESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	20.00	20.00	20.00	20.00 50.00	30.00	
MECHANICAL PRECIPITATOR EFFICIENCY : OESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: OESIGN, LOW - HIGH	95.00	90.00	95.00 99.50	92.00 98.00	99.00	
TESTED, LOW - HIGH	96.30 96.40	81.00 86.00	91.50 99.50	81.60 83.00		
EST., LOW - HIGH	96.00	81.00 86.00	92.00 99.50	81.60 83.00		
OESULFURIZATION SYSTEM EFFICIENCY : OESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	5.66	2.91	3.01	5.24	4.89	
SULFUR OIOXIOE (1,000 TONS)	49.80	5.82	45.07	15.17	180.36	
NITROGEN OXIOES (1,000 TONS)	8.57	1.33	9.54	4.56	33.70	
STACKS: - TOTAL NO.	2	1	4	5	2	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	230.00	250.00	193.00 230.00	211.00	750.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]	172.50	19.40	127.00	50.60	759.00	
SOLD (1,000 TONS)[11]	16.30		38.60	2.50	4.80	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)	1,338.00		2,810.00	1,604.00	4,776.00	
COMBINATION PRECIPITATORS ($1,000)[4]		438.00				
OESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	184.00	165.00	246.00	100.00	2,203.00	
ASH COLLECTION AND OISPOSAL EXPENSES ($1,000)	179.90	42.70	301.70	21.65	1,105.00	
REVENUES FROM SALE OF ASH ($1,000)	5.70		12.50	1.60	1.60	
SULFUR PRODUCT COLLECTION AND OISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	185.00	57.40	329.60	33.65	1,115.60	
TOTAL BYPRODUCT SALES REVENUES ($1,000)	5.70		12.50	1.60	1.60	

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R ALLEGHENY	C SPRING	R MONONGAHELA	R ALLEGHENY	R MONONGAHELA	
AVERAGE RATE OF WITHDRAWAL (CFS)	227.00	69.00	525.00	353.00	858.00	
AVERAGE RATE OF OISCHARGE (CFS)	226.40	68.90	524.20	352.97	850.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	1.30	.40	2.80	1.70	7.72	
PEAK LOAD MONTH : SUMMER - WINTER[15]	1.95 .59	.59 .40	4.52 2.80	3.04 1.70		
MAX. TEMP. OURING PEAK MONTH (OEG. F.): AT OIVERSION, SUMMER - WINTER	AUG OEC	AUG OEC	AUG OEC	AUG OEC	AUG OEC	
AT OUTFALL, SUMMER - WINTER	82.00 32.00	69.00 56.00	91.00 50.00	85.00 49.00	101.00 47.00	
AVE. FLOW IN RECEIVING BODY OURING PEAK MONTH (CFS): SUMMER	111.00 61.00	86.00 73.00	110.00 69.00	98.00 62.00	116.00 62.00	
- WINTER	7,640.00	118.00	5,870.00	9,080.00	4,790.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O[16]	18,800.00	140.00	11,200.00	23,000.00	10,100.00	
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP		H				
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	2.42	.03	.45	.45		
LIME (TONS), COOLING WATER - BOILER MAKEUP	39.50		4.28	2.25	512.59	
ALUM (TONS), COOLING WATER - BOILER MAKEUP	4.33			108.00	112.00	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	13.80		27.00	36.00	27.95	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	17.00 YES	YES	.60 .10 YES YES	35.00 4.05 YES	16.00 2.50 YES YES	
SEWAGE OISPOSAL: METHOO PS, ST, SW, OT[18]	ST	ST	ST	ST	OT	
RECEIVING WATER BODY				O FRENCH CRAIN	R MONONGAHELA	
PONO OISCHARGE[19]: PH, BOILER BLOWDOWN - ASH SETTLING		7.30		9.81	5.80	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					107.00	
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN				383.00		
- ASH SETTLING		35,131.24		61,350.10	384,142.00	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	2 361.00	2 40.00	3 474.00	8 427.76	1 576.00	
ONCE THROUGH COOLING (SALINE)						
COOLING PONO(S)						
COOLING TOWER(S)					1 576.00	
COMBINATIONS[21]					1 576.00	
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1958 1959	1950	1948 1963	1920 1954	1969 1971	
OESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	29.00 30.00	17.00	18.00 21.00	11.00 23.00	15.00	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	275.40	68.00	648.00	741.00	1,812.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	277.00	68.00	656.00	976.00	1,112.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)	1,316.00	172.00	1,193.00	2,263.00	5,624.00	
COOLING PONOS ($1,000)						
COOLING TOWERS ($1,000)					4,373.00	

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	114.80	23.40	118.70	162.60	287.70	
COST OF CHEMICAL ADDITIVES ($1,000)	2.20		2.50	2.20	10.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)	68.90	13.60	74.80	93.40	131.40	
COST OF CHEMICAL ADDITIVES ($1,000)	7.90	.50	5.80	12.90	142.00	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

NAME OF UTILITY	WEST TEXAS UTILITIES CO.	WEST TEXAS UTILITIES CO.	WEST TEXAS UTILITIES CO.	WEST TEXAS UTILITIES CO.	WEST TEXAS UTILITIES CO.	
NAME OF PLANT	ABILENE	CONCHO	LAKE PAULINE	OAK CREEK	PAINT CREEK	
UTILITY-PLANT CODE	543000-0100	543000-0200	543000-0400	543000-0600	543000-0700	
STATE	TEXAS	TEXAS	TEXAS	TEXAS	TEXAS	
COUNTY	TAYLOR	TOM GREEN	HARDEMAN	COKE	HASKELL	
AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	210 12	210 12	210 11	210 12	210 12	
PLANT CAPACITY (MW)	26.25	52.50	44.50	81.60	241.60	
ANNUAL GENERATION (MWH)[3]	20,500	101,000	204,800	440,200	1,044,700	
PLANT HEAT RATE (BTU/KWH)[3]	14,700	14,012	13,543	10,178	11,082	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT (%)						
OIL: CONSUMPTION (1,000 BARRELS)	20.41	35.10	39.53	16.51	69.03	
AVERAGE HEAT CONTENT (BTU/GAL)	144,825	145,959	145,932	142,367	144,582	
AVERAGE SULFUR CONTENT (%)	.40	.40	.40	.20	.40	
GAS: CONSUMPTION (1,000 MCF)	166.30	1,730.00	2,370.40	4,240.10	10,617.98	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,063	1,061	1,068	1,034	1,051	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	3	4	4	1	4	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS						
- NO. WITH COMBINATION PRECIPITATORS[4]						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	15.00	8.00	8.00	11.00	5.00 8.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
EST., LOW - HIGH						
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)		.01	.01		.01	
SULFUR DIOXIDE (1,000 TONS)	.03	.05	.05	.01	.09	
NITROGEN OXIDES (1,000 TONS)	.08	.30	.55	.86	2.22	
STACKS: - TOTAL NO.	3	4	2	1	4	
- HEIGHT (FEET), LOWEST - HIGHEST[8]	100.00	105.00 109.00	112.00 113.50	130.00	100.00 151.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]						
TOTAL ASH: COLLECTED (1,000 TONS)[10]						
SOLD (1,000 TONS)[11]						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)						
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000)[4]						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)				14.00	53.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]						
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L PHANTOM	M	L PAULINE	L OAK CREEK	L STAMFORD	
AVERAGE RATE OF WITHDRAWAL (CFS)	.18	.58	123.58	66.84	214.00	
AVERAGE RATE OF DISCHARGE (CFS)	.07	.23	123.58	66.84	214.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	.11	.35	.38	.65	1.67	
PEAK LOAD MONTH : SUMMER - WINTER[15]	JUN JAN	JUN JAN	JUN JAN	JUN JAN	JUN JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER			85.00 49.00	83.00 54.00	82.00 48.00	
AT OUTFALL, SUMMER - WINTER	75.00 70.00	82.00 61.00	95.00 57.00	100.00 74.00	96.00 71.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER						
- WINTER						
FREQUENCY OF TEMPERATURE MONITORING: C, M, D, O[16]						
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.20	.94 .37	.50	.22	.45	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP		.39	.60		.20	
LIME (TONS), COOLING WATER - BOILER MAKEUP	19.40	101.40			15.88	
ALUM (TONS), COOLING WATER - BOILER MAKEUP		7.05			2.05	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	.23	.68		2.00	8.00	
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	YES YES	YES YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	ST	PS	ST	ST	ST	
RECEIVING WATER BODY						
POND DISCHARGE:[19] PH, BOILER BLOWDOWN - ASH SETTLING						
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING						
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN						
- ASH SETTLING						

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)						
ONCE THROUGH COOLING (SALINE)						
COOLING PONDS			2 44.50	1 81.60	4 241.60	
COOLING TOWERS	2 26.25	2 52.50				
COMBINATION[21]						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1948 1949	1947 1953	1928 1951	1962	1953 1971	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	11.00	15.00 16.20	7.50 8.50	19.00	17.00 20.50	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	64.10	105.00	179.70	90.00	303.00	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)						

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)						
COOLING PONDS ($1,000)			192.00			
COOLING TOWERS ($1,000)	137.00	188.00				

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)						
COST OF CHEMICAL ADDITIVES ($1,000)	.93	6.86	1.53	.35	1.36	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)						
COST OF CHEMICAL ADDITIVES ($1,000)	.11	.96	6.14	.39	3.11	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

NAME OF UTILITY	WEST TEXAS UTILITIES CO.	WEST TEXAS UTILITIES CO.	WESTERN FARMERS ELECTRIC COOP.	WESTERN FARMERS ELECTRIC COOP.	WESTERN MASSACHUSETTS ELECTRIC CO.	
NAME OF PLANT	R10 PECOS	SAN ANGELO	ANADARKO	MOORELAND	WEST SPRINGFIELD	
UTILITY-PLANT CODE	543000-0900	543000-1000	544000-0100	544000-0300	545500-1100	
STATE	TEXAS	TEXAS	OKLAHOMA	OKLAHOMA	MASSACHUSETTS	
COUNTY	CROCKETT	TOM GREEN	CADDO	WOODWARD	HAMPDEN	
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	218 13	218 12	108 11	107 11	042 01	
PLANT CAPACITY (MW)	136.50	100.85	84.50	191.00	209.64	
ANNUAL GENERATION (MWH) 3/	830,400	611,900	177,100	1,181,700	1,143,500	
PLANT HEAT RATE (BTU/KWH) 3/	10,698	9,845	12,406	10,209	11,088	

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)						
AVERAGE HEAT CONTENT (BTU/LB)						
AVERAGE SULFUR CONTENT (%)						
AVERAGE ASH CONTENT (%)						
AVERAGE MOISTURE CONTENT (%)						
OIL: CONSUMPTION (1,000 BARRELS)		3.92	16.39		1,596.50	
AVERAGE HEAT CONTENT (BTU/GAL)		137,744	147,500		146,118	
AVERAGE SULFUR CONTENT (%)		.20	2.00		.96	
GAS: CONSUMPTION (1,000 MCF)	9,314.00	5,721.66	2,010.53	11,485.92	2,822.60	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	954	1,049	1,042	1,050	1,000	

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	2	1	3	2	3	
- NO. OF WET BOTTOM						
- NO. WITH FLY ASH REINJECTION						
- NO. WITH MECHANICAL PRECIPITATORS						
- NO. WITH ELECTROSTATIC PRECIPITATORS					3	
- NO. WITH COMBINATION PRECIPITATORS 4/						
- NO. WITH DESULFURIZATION SYSTEMS						
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	8.00		7.00 20.00	9.00 10.00	20.00 23.00	
MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH					95.00 97.50	
TESTED, LOW - HIGH					96.40 98.80	
EST., LOW - HIGH					65.00 70.00	
DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH						
TESTED, LOW - HIGH						
ESTIMATED, LOW - HIGH						

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)					.09	
SULFUR OXIDE (1,000 TONS)			.11		5.14	
NITROGEN OXIDES (1,000 TONS)	1.82	1.12	.43	2.24	4.07	
STACKS: - TOTAL NO.	2	1	3	2	3	
- HEIGHT (FEET), LOWEST - HIGHEST 8/	110.00 119.00	113.00	101.00 111.50	125.00 153.50	180.00 223.00	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/					.25	
TOTAL ASH: COLLECTED (1,000 TONS) 10/					.20	
SOLD (1,000 TONS) 11/						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)						
INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)					634.00	
ELECTROSTATIC PRECIPITATORS ($1,000)						
COMBINATION PRECIPITATORS ($1,000) 4/						
DESULFURIZATION SYSTEMS ($1,000)						
STACKS ($1,000)	22.00	6.70			634.00	
ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)					18.00	
REVENUES FROM SALE OF ASH ($1,000)						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)						
REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)						
TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/					23.20	
TOTAL BYPRODUCT SALES REVENUES ($1,000)						

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES W, L, R, C, M, M & W EXPL. IN FOOTNOTES)	W	L NASWORTHY	R WASHITA	W	R CONNECTICUT	
AVERAGE RATE OF WITHDRAWAL (CFS)	2.29	128.00	.66	3.10	307.00	
AVERAGE RATE OF DISCHARGE (CFS)	.43	128.00	.10	.62	307.00	
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	1.86	.69	.56	2.48	2.84	
PEAK LOAD MONTH : SUMMER - WINTER 15/	JUN JAN	JUN JAN	AUG JAN	AUG JAN	SEP JAN	
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	97.00	97.00 49.00			79.00 37.00	
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): AT OUTFALL, SUMMER - WINTER	71.00	68.00	82.00	59.00	102.00 59.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D 16/			.06	.56	10,250.00	
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.25	.15	.20	.09	3.56 4.00	
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.05	.05	.05	.09	4.99 1.62	
LIME (TONS), COOLING WATER - BOILER MAKEUP						
ALUM (TONS), COOLING WATER - BOILER MAKEUP						
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP						
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES	
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	ST	ST	PS	ST	PS	
RECEIVING WATER BODY						
POND DISCHARGE: 18/ PH, - ASH SETTLING					T.20	
SUSPENDED SOLIDS (PPM), - ASH SETTLING						
VOLUME (1,000 CUFT/YR), - ASH SETTLING					445.50	

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 19/: ONCE THROUGH COOLING (FRESH)					3 209.64	
ONCE THROUGH COOLING (SALINE)						
COOLING POND(S)		1 100.85				
COOLING TOWER(S)	2 136.50		3 84.50	2 191.00		
COMBINATIONS 20/						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1959 1969	1965	1953 1959	1944 1968	1949 1957	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 21/	18.40 22.10	12.75	12.00 16.00	15.00 17.00	20.00 21.85	
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	164.00	174.00	155.80	253.96	241.70	
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)					307.00	

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS ($1,000)					1,188.00	
COOLING PONDS ($1,000)						
COOLING TOWERS ($1,000)	242.00		245.78	401.40		

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)					38.60	
COST OF CHEMICAL ADDITIVES ($1,000)	51.30	1.22	12.00	29.00	8.95	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES ($1,000)					36.19	
COST OF CHEMICAL ADDITIVES ($1,000)	1.00	2.05	2.00	2.00	6.05	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

1	NAME OF UTILITY	1	WILLMAR MUN UTIL	WISCONSIN ELECTRIC POWER CO.	WISCONSIN ELECTRIC POWER CO.	WISCONSIN ELECTRIC POWER CO.	WISCONSIN ELECTRIC POWER CO.	1
2		2						2
3		3						3
4	NAME OF PLANT	4	WILLMAR	COMMERCE	LAKESIDE	NORTH CAP CREEK	PORT WASHINGTON	4
5	UTILITY-PLANT CODE	5	549750-0100	553000-0100	553000-0300	553000-0400	553000-0500	5
6	STATE	6	MINNESOTA	WISCONSIN	WISCONSIN	WISCONSIN	WISCONSIN	6
7	COUNTY	7	KANDIYOHI	MILWAUKEE	MILWAUKEE	MILWAUKEE	OZAUKEE	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	8	133 07	239 04	239 04	239 04	239 04	8
9	PLANT CAPACITY (MW)	9	29.35	35.00	310.00	500.00	400.00	9
10	ANNUAL GENERATION (MWH)[3]	10	47,200	104,200	493,600	2,131,100	1,437,600	10
11	PLANT HEAT RATE (BTU/KWH)[3]	11	18,766	16,021	17,159	10,301	11,585	11
	AIR QUALITY CONTROL DATA							
	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12	28.18			955.15	687.20	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	8,978			11,457	12,118	13
14	AVERAGE SULFUR CONTENT (%)	14	1.02			2.09	3.43	14
15	AVERAGE ASH CONTENT (%)	15	8.74			10.71	10.56	15
16	AVERAGE MOISTURE CONTENT (%)	16	23.28			3.30	2.84	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17		14.89	331.89	11.22		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18		137,284	149,089	137,800		18
19	AVERAGE SULFUR CONTENT (%)	19		.24	2.61	.18		19
20	GAS: CONSUMPTION (1,000 MCF)	20	395.60	1,540.44	6,260.73			20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,000	1,028	1,021			21
	PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	22	3	1	20	4	5	22
23	- NO. OF WET BOTTOM	23						23
24	- NO. WITH FLY ASH REINJECTION	24	3					24
25	- NO. WITH MECHANICAL PRECIPITATORS	25	3					25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26				4	5	26
27	- NO. WITH COMBINATION PRECIPITATORS[4]	27						27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	29		10.00	10.00	20.00	28.00 30.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30	92.00 92.50					30
31	TESTED, LOW - HIGH	31						31
32	ESTIMATED, LOW - HIGH	32						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	33				99.00 99.50	99.10 99.20	33
34	TESTED, LOW - HIGH	34				98.40 98.73	99.16 99.48	34
35	EST., LOW - HIGH	35				97.43 97.89	99.01 99.12	35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	39	.32		.06	1.55	.44	39
40	SULFUR DIOXIDE (1,000 TONS)	40	.56	.01	2.91	39.13	46.20	40
41	NITROGEN OXIDES (1,000 TONS)	41	.29	.33	1.95	7.19	5.15	41
42	STACKS: - TOTAL NO.	42	3	1	4	2	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	43	108.00 129.00	300.70	231.00 253.23	250.25 350.25	505.17 505.50	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	44						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	45	2.50			100.20	68.80	45
46	SOLD (1,000 TONS)[11]	46						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50						50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51				2,713.00	2,517.00	51
52	COMBINATION PRECIPITATORS ($1,000)[4]	52						52
53	DESULFURIZATION SYSTEMS ($1,000)	53						53
54	STACKS ($1,000)	54		120.00	231.00	246.00	763.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55				621.90	492.20	55
56	REVENUES FROM SALE OF ASH ($1,000)	56						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	59				671.90	492.20	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60						60
	WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	W	R MILWAUKEE	L MICHIGAN	L MICHIGAN	L MICHIGAN	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62		72.40	411.90	686.50	623.40	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63		71.80	408.40	680.60	618.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	64		.62 .60	3.54 3.50	5.90 5.90	5.36 5.40	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	65		AUG JAN	AUG JAN	AUG JAN	AUG JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66		80.00 34.00	70.00 53.00	69.00 40.00	68.00 50.00	66
67	AT OUTFALL, SUMMER - WINTER	67		91.00 43.00	81.00 66.00	79.00 59.00	26.00 64.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68		442.00				68
69	- WINTER	69		751.00				69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]	70						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		1.43	43.16	3.20	2.47	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		60.65		35.47	106.60	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74			.15			74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75		1.11	1.93	1.54	.74 2.95	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP[17]	76		YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[18]	77		PS	PS	OT	PS	77
78	RECEIVING WATER BODY	78						78
79	POND DISCHARGE[19] PH, BOILER BLOWDOWN - ASH SETTLING	79		8.50	10.10	6.90	6.80 7.50	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80				200.00	40.00 15.00	80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81		242.00	240.00	293.40	128.00	81
82	- ASH SETTLING	82					127,144.83	82
	COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING[20]: ONCE THROUGH COOLING (FRESH)	83		1 35.00	8 280.00	4 500.00	5 400.00	83
84	ONCE THROUGH COOLING (SALINE)	84						84
85	COOLING POND(S)	85						85
86	COOLING TOWER(S)	86	3 29.35					86
87	COMBINATION[21]	87						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1949 1966	1941	1920 1930	1953 1957	1935 1950	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[22]	89	15.00	10.50	7.50 10.00	9.00	7.50	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	43.60	85.00	1,070.00	980.00	1,225.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		85.00	1,070.00	980.00	1,225.00	91
	CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92		219.00	557.00	1,814.00	697.00	92
93	COOLING PONDS ($1,000)	93						93
94	COOLING TOWERS ($1,000)	94						94
	ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95		17.90	95.50	155.10	143.80	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96		.40	1.80	6.80	.70	96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97		84.30	9.60	20.40	40.30	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98		8.60	10.00	8.50	11.10	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	1	WISCONSIN ELECTRIC POWER CO.	WISCONSIN ELECTRIC POWER CO.	WISCONSIN ELECTRIC POWER CO.	WISCONSIN POWER & LIGHT CO.	WISCONSIN POWER & LIGHT CO.	1
2		2						2
3		3						3
4	NAME OF PLANT	4	SOUTH OAK CREEK	VALLEY	POINT BEACH	BLACKHAWK	EDGEWATER	4
5	UTILITY-PLANT CODE	5	553000-0600	553000-0700	553000-0800	554000-0200	554000-0300	5
6	STATE	6	WISCONSIN	WISCONSIN	WISCONSIN	WISCONSIN	WISCONSIN	6
7	COUNTY	7	MILWAUKEE	MILWAUKEE	MANITOWOC	ROCK	SHEBOYGAN	7
8	AIR QUALITY CONTROL REGION NO.[1] - WATER RESOURCE REGION NO.[2]	8	239 04	239 04	232 04	073 07	237 04	8
9	PLANT CAPACITY (MW)	9	1,192.00	272.00	1,047.60	60.00	437.00	9
10	ANNUAL GENERATION (MWH)[3]	10	4,506,300	1,196,600	5,753,400	258,900	2,804,900	10
11	PLANT HEAT RATE (BTU/KWH)[3]	11	9,685	14,145	10,934	12,628	10,085	11
	AIR QUALITY CONTROL DATA							
	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12	1,889.83	709.83		56.20	1,292.75	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	11,487	11,848		11,005	10,930	13
14	AVERAGE SULFUR CONTENT (%)	14	2.16	3.22		2.91	2.53	14
15	AVERAGE ASH CONTENT (%)	15	10.86	10.39		11.34	8.94	15
16	AVERAGE MOISTURE CONTENT (%)	16	7.10	9.17		11.26	15.12	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	39.23				3.20	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	137,649				140,000	18
19	AVERAGE SULFUR CONTENT (%)	19	.19				.30	19
20	GAS: CONSUMPTION (1,000 MCF)	20		102.92		2,572.40		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21		1,027		1,004		21
	PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	22	4	4		2	4	22
23	- NO. OF WET BOTTOM	23					2	23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25				2		25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	4	4			3	26
27	- NO. WITH COMBINATION PRECIPITATORS[4]	27						27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER[5]	29	20.00 21.00	20.00		10.00	12.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30				88.00		30
31	TESTED, LOW - HIGH	31				88.00		31
32	EST(MATED, LOW - HIGH	32				80.00		32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY[6]: DESIGN, LOW - HIGH	33	92.00 99.00	99.00			90.00 99.00	33
34	TESTED, LOW - HIGH	34	97.81 99.69	98.43 99.36			95.50 99.70	34
35	EST., LOW - HIGH	35	94.29 99.49	98.86 98.98				35
36	DESULFURIZATION SYSTEN EFFICIENCY : DESIGN, LOW - HIGH	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38
	PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMMISSIONS[7]: PARTICULATE MATTER (1,000 TONS)	39	6.14	.34		.73	.49	39
40	SULFUR DIOXIDE (1,000 TONS)	40	80.03	22.78		2.16	65.94	40
41	NITROGEN OXIDES (1,000 TONS)	41	16.15	3.26		.81	34.35	41
42	STACKS: - TOTAL NO.	42	2	2		1	3	42
43	- HEIGHT (FEET), LOWEST - HIGHEST[8]	43	454.29 556.67	400.00		226.00	200.00 360.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)[9]	44						44
45	TOTAL ASH: COLLECTED (1,000 TONS)[10]	45	199.00	70.50		10.80	115.78	45
46	SOLD (1,000 TONS)[11]	46					8.87	46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)[12]	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50				68.00		50
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51	2,794.00	1,229.00			1,106.00	51
52	COMBINATION PRECIPITATORS ($1,000)[4]	52						52
53	DESULFURIZATION SYSTENS ($1,000)	53						53
54	STACKS ($1,000)	54	971.00	706.00		50.00	474.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55	1,193.20	397.10		27.40	261.40	55
56	REVENUES FROM SALE OF ASH ($1,000)	56						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000)[13]	59	1,193.20	397.10		27.40	261.40	59
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60						60
	WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	L MICHIGAN	D N. MENOM. CNL	L MICHIGAN	R ROCK	L MICHIGAN	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	1,457.20	182.60	1,287.00	77.80	294.50	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	1,436.10	181.00	1,275.90	77.80	294.50	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED[14]	64	12.53 21.10	1.57 1.60	11.02 11.10	.67	2.53	64
65	PEAK LOAD MONTH : SUMMER - WINTER[15]	65	AUG JAN	AUG JAN	AUG JAN	AUG OEC	AUG OEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	69.00 40.00	79.00 48.00	69.00 69.00	79.00 46.00	66.00 40.00	66
67	AT OUTFALL, SUMMER - WINTER	67	84.00 63.00	114.00 101.00	84.00 76.00	94.00 63.00	90.00 71.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68		193.10		1,023.00		68
69	- WINTER	69		178.80				69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O[16]	70			C			70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	7.12	2.93	2.22	.20	1.80	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	78.94	485.60	22.12	.24	7.20	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73			23.75			73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74			4.00		4.50	74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	3.43	6.48	.08	1.00	1.13	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT[16]	77	DT	PS	DT	PS	PS	77
78	RECEIVING WATER BODY	78			L MICHIGAN			78
79	POND DISCHARGE:[16] PH, BOILER BLOWDOWN - ASH SETTLING	79	6.90	7.30	8.50	10.20	8.50 7.60	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80	200.00		1.00	10.00		80
81	VOLUME 11,000 CUFT/YR), BOILER BLOWDOWN	81	631.00	1,703.60	878.41	120.80	450.00	81
82	- ASH SETTLING	82					200,000.00	82
	COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING[17]: ONCE THROUGH COOLING (FRESH)	83	4 1,170.00	2 280.00	2 1,047.60	2 57.50	4 490.00	83
84	ONCE THROUGH COOLING (SALINE)	84						84
85	COOLING PONDS	85						85
86	COOLING TOWER(S)	86						86
87	COMBINATIONS[18]	87						87
88	COOLING SYSTEN, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEN	88	1959 1967	1968 1969	1970 1972	1946 1949	1931 1969	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST[19]	89	11.00 16.00	31.80	19.30	12.00	11.00 15.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	1,760.00	250.00	1,586.00	152.00	526.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTENS (CFS)	91	1,760.00	250.00	1,586.00	156.00	526.00	91
	CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTENS ($1,000)	92	1,640.00	857.00	5,710.00	56.00	300.00	92
93	COOLING PONDS ($1,000)	93						93
94	COOLING TOWERS ($1,000)	94						94
	ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95	318.30	47.60	32.10	34.10	56.40	95
96	COST OF CHEMICAL ADDITIVES ($1,000)	96	14.60	11.80		.60		96
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97	45.40	178.60	16.80	7.00	15.00	97
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	16.10	63.00	47.70	6.50	15.60	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1973

1	NAME OF UTILITY	1.	WISCONSIN POWER & LIGHT CO.	WISCONSIN POWER & LIGHT CO.	WISCONSIN PUBLIC SERVICE CORP.	WISCONSIN PUBLIC SERVICE CORP.	YANKEE ATOMIC ELECTRIC CO.
2		2					
3		3					
4	NAME OF PLANT	4	NELSON DEWEY	ROCK RIVER	PULLIAM	WESTON	ROWE
5	UTILITY-PLANT CODE	5	554000-0600	554000-0900	554500-1500	554500-2600	562500-0100
6	STATE	6	WISCONSIN	WISCONSIN	WISCONSIN	WISCONSIN	MASSACHUSETTS
7	COUNTY	7	GRANT	ROCK	BROWN	MARATHON	FRANKLIN
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	040 07	073 07	032 04	230 07	092 01
9	PLANT CAPACITY (MW)	9	224.30	159.00	392.50	135.00	185.00
10	ANNUAL GENERATION (MWH) 3/	10	1,371,400	862,400	2,330,600	930,800	1,052,000
11	PLANT HEAT RATE (BTU/KWH) 3/	11	9,568	10,684	11,351	11,248	11,653
	AIR QUALITY CONTROL DATA						
	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	12	605.30	414.80	1,103.90	345.40	
13	AVERAGE HEAT CONTENT (BTU/LB)	13	10,837	11,107	11,863	11,786	
14	AVERAGE SULFUR CONTENT (%)	14	3.62	2.82	2.80	2.93	
15	AVERAGE ASH CONTENT (%)	15	10.37	10.06	10.89	9.43	
16	AVERAGE MOISTURE CONTENT (%)	16	13.51	12.63	7.42	9.24	
17	OIL: CONSUMPTION (1,000 BARRELS)	17	.60	2.00	10.60	3.00	
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	140,000	141,000	138,000	138,000	
19	AVERAGE SULFUR CONTENT (%)	19	.30	.33	.30	.30	
20	GAS: CONSUMPTION (1,000 MCF)	20			195.80	2,148.00	
21	AVERAGE HEAT CONTENT (BTU/Cu.FT.)	21			1,024	1,025	
	PLANT EQUIPMENT DATA						
22	BOILERS: - TOTAL NO.	22	2	2	8	2	
23	- NO. OF WET BOTTOM	23	2	2	8		
24	- NO. WITH FLY ASH REINJECTION	24					
25	- NO. WITH MECHANICAL PRECIPITATORS	25					
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26			6	2	
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27					
28	- NO. WITH DESULFURIZATION SYSTEMS	28					
29	- EXCESS AIR USED (%, LOWEST BOILER - HIGHEST BOILER) 5/	29	15.00	15.00	20.00	23.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30					
31	TESTED, LOW - HIGH	31					
32	ESTIMATED, LOW - HIGH	32					
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	33			90.00 97.00		99.00
34	TESTED, LOW - HIGH	34		99.60	88.30 97.40	99.70	99.80
35	EST., LOW - HIGH	35		99.60	88.30 94.40	99.70	99.80
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36					
37	TESTED, LOW - HIGH	37					
38	ESTIMATED, LOW - HIGH	38					
	PLANT OPERATING DATA AND COST OF EQUIPMENT						
39	EST. TOTAL ANNUAL PLANT EMMISSIONS 7/: PARTICULATE MATTER (1,000 TONS)	39	6.27	.02	7.06	.07	
40	SULFUR DIOXIDE (1,000 TONS)	40	42.93	22.98	60.59	19.84	
41	NITROGEN OXIDES (1,000 TONS)	41	16.64	11.44	16.62	3.53	
42	STACKS: - TOTAL NO.	42	1	2	7	2	
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	43	352.00	250.00	183.00 237.50	242.50	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	44					
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	45	50.20	41.80	110.90	32.80	
46	SOLD (1,000 TONS) 11/	46			9.00	3.30	
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47					
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	48					
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49					
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS ($1,000)	50					
51	ELECTROSTATIC PRECIPITATORS ($1,000)	51			2,036.00	3,077.00	
52	COMBINATION PRECIPITATORS ($1,000) 4/	52					
53	DESULFURIZATION SYSTEMS ($1,000)	53					
54	STACKS ($1,000)	54	185.00	300.00	321.00	56.00	
55	ASH COLLECTION AND DISPOSAL EXPENSES ($1,000)	55	58.70	46.90	132.00	28.70	
56	REVENUES FROM SALE OF ASH ($1,000)	56		10.60	6.80	2.40	
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES ($1,000)	57					
58	REVENUES FROM SALE OF SULFUR PRODUCTS ($1,000)	58					
59	TOTAL AIR QUALITY CONTROL EXPENSES ($1,000) 13/	59	58.70	46.90	132.00	28.70	
60	TOTAL BYPRODUCT SALES REVENUES ($1,000)	60		10.60	6.80	2.40	
	WATER QUALITY CONTROL DATA						
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R MISSISSIPPI	R ROCK	R FOX	R WISCONSIN	R DEERFIELD
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	209.00	154.00	500.28	138.37	310.00
63	AVERAGE RATE OF DISCHARGE (CFS)	63	209.00	154.00	500.28	138.37	310.00
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64	1.80	1.32	4.30	1.19	2.67
65	PEAK LOAD MONTH : SUMMER - WINTER 15/	65	AUG DEC	AUG DEC	AUG DEC	AUG DEC	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	76.00 41.00	77.00 49.00	78.00 41.00	82.00 38.00	
67	AT OUTFALL, SUMMER - WINTER	67	93.00 63.00	90.00 75.00	90.00 66.00	100.00 69.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	223.00	1,023.00	2,311.61	2,556.80	
69	- WINTER	69	167.00		4,230.97	2,688.00	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, 0 16/	70					C
T1	CHEMICAL ADDITIVES: PHOSPHATE (TONS) 1, COOLING WATER - BOILER MAKEUP	71	.05	.05	1.70	.28	
T2	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	.05	.05	39.75	25.50	.23
T3	LIME (TONS), COOLING WATER - BOILER MAKEUP	73					
T4	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74					.60
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75		2.50	193.00	162.00	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP 2/	76	YES	YES	YES	YES	YES YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	77	ST	ST	PS		
T8	RECEIVING WATER BODY	78					
79	POND DISCHARGE: 19/ PH, BOILER BLOWDOWN - ASH SETTLING	79	8.50 7.60	10.30 7.60			
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80	8.00 2.00	3.00 3.00			
81	VOLUME 11,000 CUFT/YR), BOILER BLOWDOWN	81	75.00	60.00		835.00	
82	- ASH SETTLING	82	60,000.00	65,000.00		10,645.00	
	COOLING FACILITY DATA						
83	NO. OF UNITS AND CAPACITY (MW) USING 20/: ONCE THROUGH COOLING (FRESH)	83	2 236.00	2 159.38	8 392.50	2 135.00	1 185.00
84	ONCE THROUGH COOLING (SALINE)	84					
85	COOLING PONDS (S)	85					
86	COOLING TOWER (S)	86					
87	COMBINATION 21/	87					
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1960 1962	1954 1955	1926 1964	1954 1960	1960
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	89	15.00	12.00	10.00 12.40	17.70 19.70	18.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	223.20	214.00	837.90	182.50	310.00
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	222.80	214.00	838.00	182.50	310.00
	CAPITAL COSTS OF COOLING FACILITIES						
92	ONCE THROUGH COOLING SYSTEMS ($1,000)	92	300.00	250.00	2,376.00	623.00	
93	COOLING PONDS ($1,000)	93					
94	COOLING TOWERS ($1,000)	94					
	ANNUAL COOLING WATER EXPENSES						
95	OPERATION AND MAINTENANCE EXPENSES ($1,000)	95	47.40	48.10	50.17	35.78	
96	COST OF CHEMICAL ADDITIVES ($1,000)	96		1.50	16.06	11.54	2.97
	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
97	OPERATION AND MAINTENANCE EXPENSES ($1,000)	97	20.45	19.50	28.66	17.27	
98	COST OF CHEMICAL ADDITIVES ($1,000)	98	.53	3.30	19.69	7.20	.81

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

FOOTNOTES TO TABLE 10

1/ Tables 1B, 2B, 4B and 5B display Form 67 data as summarized by AQCR. See Appendix 3 for a map of these regions/numbers.

2/ Tables 6B, 7B, 8B and 9B display Form 67 data as summarized by WRR. See Appendix 4 for a map of these regions/numbers.

3/ Source: FPC Form #1

4/ Precipitator systems which include a mechanical and an electrostatic precipitator in series.

5/ First number is for the boiler with the least excess air; Second number is for the boiler with the highest excess air.

6/ First number is for precipitator with lowest efficiency; Second number is for precipitator with highest efficiency.

7/ Line 39-41 figures computed by FPC. Method of computation described in Section I.

8/ Height of lowest and highest stack in the plant.

9/ May include a variety of fuel oil additives designed to reduce boiler corrosion and to improve combustion.

10/ Tonnage includes bottom ash and flyash as reported in Form 67. The sum of lines 45 and 39 does not necessarily equal the total ash content. (See discussion in Section I above.)

11/ Includes bottom ash and flyash.

12/ Figures computed by FPC. Method of computation described in Section I above.

13/ May include the "incremental cost" of premium (low-sulfur) fuels.

14/ An approximation of assumed average conditions obtained by use of the formula that consumption = (.0086) x (withdrawal), which may be derived as follows:

Average heat rate (1969)	10,447 Btu/kwh
In-plant and stack losses (15%)	1,567 Btu/kwh
Heat equivalent of generation	3,413 Btu/kwh
Heat given up in condenser	5,467 Btu/kwh
Heat dissipated by evaporation (50%)	2,734 Btu/kwh
Heat of evaporation	1,050 Btu/lb

Water evaporated (consumed)	2.6 lb/kwh
Temperature rise across the condenser	18°F.
Flow through condenser (withdrawal)	304 lb/kwh
Ratio of consumption to withdrawal	.0086

15/ System peak power load month.

16/ C - continuously; H - hourly; D - daily; O - other.

17/ Major examples are: H_2SO_4, Na_2SO_3, Na_2SO_4, NaCl, NH_3 and Morpholine.

18/ PS - Public Sewer; ST - Septic tank; SW - surface water body, such as river, lake, ocean; OT - other.

19/ Refers to the discharges from the Boiler Blowdown pond and the Ash Settling pond.

20/ "Unit" refers to a turbine-generator set; capacity refers to maximum nameplate generator rating. There may be a difference in the generating capacity shown on line 9 of Table 10 and the sum of the capacities shown in lines 83 through 87. Minor differences usually resulted when capacities reported in lines 83 through 87 were not the maximum nameplate ratings. Major differences occured at plants with non-condensing units.

21/ Those units with a capability of using more than one cooling system.

22/ First number is for condenser with smallest temperature rise; second number is for condenser with highest temperature rise.

WATER BODY CODES for line No. 61 of the general table containing individual plant data (Table 10):

R-river L-lake B-bay C-creek W-well M-muncipal O-other

APPENDIX 1

ALPHABETICAL INDEX OF PLANTS

PLANT NAME	UTILITY NAME	PAGE
ABBOTT	UNIVERSITY OF ILLINOIS	172
ABILENE	THE KANSAS POWER & LIGHT CO.	167
ABILENE	WEST TEXAS UTILITIES CO.	178
ACME	THE TOLEDO EDISON CO.	169
ADVANCE	NORTHERN MICHIGAN ELECTRIC COOP INC.	114
AGUA FRIA #2	SALT R. PROJ. AGR IMPR PWR DIST	142
ALAMITOS	SOUTHERN CALIFORNIA EDISON CO.	147
ALBANY	NIAGARA-MOHAWK POWER CORP.	113
ALBRIGHT	MONONGAHELA (ALLEGHENY) POWER CO.	107
ALEXANDRIA # 2	ALEXANDRIA ELEC. LIGHT & WATER WORKS	30
ALGADONES	PLAINS ELECTRIC G&T COOP, INC.	132
ALLEN	DUKE POWER CO.	65
ALLEN	TENNESSEE VALLEY AUTHORITY	156
ALMA	DAIRYLAND POWER COOPERATIVE	61
AMES	AMES, CITY OF	30
AMES	IOWA STATE UNIV OF SCIENCE & TECH	90
AMOS	APPALACHIAN POWER CO	31
ANADARKO	WESTERN FARMERS ELECTRIC COOP.	179
ANIMAS	FARMINGTON ELEC UTILITY SYS	48
APACHE	ARIZONA ELECTRIC POWER COOP	31
ARAPHOE	PUBLIC SERVICE CO. OF COLORADO	138
ARBUCKLE	OKLAHOMA GAS & ELECTRIC CO.	120
ARKWRIGHT	GEORGIA POWER CO.	74
ARMSTRONG	WEST PENNSYLVANIA POWER CO.	177
ARSENAL HILL	SOUTHWESTERN ELECTRIC POWER CO.	153
ARTHUR KILL	CONSOLIDATED EDISON CO. OF NY	57
ASBURY	EMPIRE DIST. ELECTRIC CO.	69
ASHEVILLE	CAROLINA POWER & LIGHT CO.	40
ASHLEY	UNION ELECTRIC CO.	170
ASHTABULA	CLEVELAND ELEC. ILLUM. CO	50
ASTORIA	CONSOLIDATED EDISON CO. OF NY	57
ATKINSON	GEORGIA POWER CO.	75
AURORA	MINNESOTA POWER & LIGHT CO.	104
AUSTIN	AUSTIN UTILITIES	35
AVON	PACIFIC GAS & ELECTRIC CO.	123
AVON LAKE	CLEVELAND ELEC. ILLUM. CO	50
AVON PARK	FLORIDA POWER CORP.	69
BAILEY	ARKANSAS ELECTRIC COOP CORP.	33
BAILLY	NORTHERN INDIANA PUBLIC SERVICE CO.	114
BALDWIN	ILLINOIS POWER CO.	85
BARBADOES	PHILADELPHIA ELECTRIC CO.	130
BARRETT	LONG ISLAND LIGHTING CO.	97

PLANT NAME	UTILITY NAME	PAGE
BARRY	ALABAMA POWER CO.	29
BARTOW	FLORIDA POWER CORP.	71
BATES	CENTRAL P&L CO.	45
BAY FRONT	LAKE SUPERIOR DIST. PWR. CO.	95
BAY SHORE	THE TOLEDO EDISON CO.	169
BAYBORO	FLORIDA POWER CORP.	70
BECKJORD	THE CINCINNATI GAS & ELECTRIC CO.	163
BELLE ISLE	OKLAHOMA GAS & ELECTRIC CO.	120
BENNING	POTOMAC ELECTRIC POWER CO.	133
BERGEN	PUBLIC SERVICE ELECTRIC & GAS CO.	136
BERTRON	HOUSTON LIGHTING & POWER CO.	83
BIG BEND	TAMPA ELECTRIC CO.	156
BIG BROWN	TEXAS POWER & LIGHT CO.	161
BIG CAJUN #1	CAJUN ELECTRIC POWER COOP	40
BIG ROCK POINT	CONSUMERS POWER CO.	59
BIG SANDY	KENTUCKY POWER CO.	94
BIG SIOUX	IOWA PUBLIC SERVICE CO.	89
BIRD	THE MONTANA POWER CO.	168
BIRDSALL	COLO SPRINGS P&L DEPT.	51
BLACK DOG	NORTHERN STATES POWER CO. (MINN.)	115
BLACKHAWK	WISCONSIN POWER & LIGHT CO.	181
BLOUNT	MADISON GAS & ELECTRIC CO.	101
BLUE VALLEY	INDEPENDENCE PWR & LIGHT DEPT	49
BLUFFS	NEBRASKA PUB PWR DISTRICT	60
BONIN	LAFAYETTE CITY UTIL SYSTEM	48
BOONE	IOWA ELECTRIC LIGHT & POWER CO.	87
BOSWELL	MINNESOTA POWER & LIGHT CO.	104
BOWEN	GEORGIA POWER CO.	76
BOWLINE POINT	ORANGE & ROCKLAND UTILITIES INC.	122
BRANTLY	DANVILLE WATER, GAS, & ELEC. DEPT	63
BRAUNIG	SAN ANTONIO CITY PUBL SERVICE BRD	49
BRAYTON	NEW ENGLAND POWER CO.	110
BREED	INDIANA & MICHIGAN ELECTRIC CO.	85
BREMO BLUFF	VIRGINIA ELECTRIC & POWER CO.	174
BRIDGEPORT	IOWA SO. UTIL. CO.	90
BRIDGEPORT HARBOR	THE UNITED ILLUMINATING CO.	170
BROADWAY	PASADENA LIGHT & POWER DEPT.	126
BROWN	KENTUCKY UTILITIES CO.	94
BROWN	MISSISSIPPI POWER & LIGHT CO.	106
BRUNNER ISLAND	PENNSYLVANIA POWER & LIGHT CO.	129
BRYAN	BRYAN, CITY OF	48
BUCK	DUKE POWER CO.	65
BULL RUN	TENNESSEE VALLEY AUTHORITY	157
BURBANK	BURBANK PUBLIC SERVICE DEPT	40
BURDICK	GRAND ISLAND WATER & LIGHT DEPT.	76
BURGER	OHIO EDISON CO.	117
BURLINGTON	IOWA SO. UTIL. CO.	90
BURLINGTON	PUBLIC SERVICE ELECTRIC & GAS CO.	137
BUZZARD POINT	POTOMAC ELECTRIC POWER CO.	133

PLANT NAME	UTILITY NAME	PAGE
CABIN CREEK	APPALACHIAN POWER CO	30
CAHOKIA	UNION ELECTRIC CO.	171
CALUMET	COMMONWEALTH EDISON CO.	53
CAMEO	PUBLIC SERVICE CO. OF COLORADO	138
CAMPBELL	CONSUMERS POWER CO.	59
CANADAY	THE CENTRAL NEBRASKA PUBL PWR & IRRIG DIST	162
CANADYS	SOUTH CAROLINA ELECTRIC & GAS CO.	145
CANAL	THE CANAL ELECTRIC CO.	162
CANE RUN	LOUISVILLE GAS & ELECTRIC CO.	100
CANNON	NEW BEDFORD GAS & EDISON LIGHT CO.	109
CAPE CANAVERAL	FLORIDA POWER & LIGHT CO.	71
CAPE FEAR	CAROLINA POWER & LIGHT CO.	41
CARBON	UTAH POWER & LIGHT CO.	172
CARDINAL	CARDINAL OPERATING CO.	40
CARLSBAD	SOUTHWEST PUBLIC SERVICE CO.	151
CAYUGA	PUBLIC SERVICE CO. OF INDIANA INC.	136
CEDAR BAYOU	HOUSTON LIGHTING & POWER CO.	84
CENTRALIA	PACIFIC POWER & LIGHT CO	126
CHALK POINT	POTOMAC ELECTRIC POWER CO.	133
CHAMOIS	CENTRAL ELECTRIC POWER CORP.	42
CHEROKEE	PUBLIC SERVICE CO. OF COLORADO	139
CHESTER	PHILADELPHIA ELECTRIC CO.	130
CHESTERFIELD	VIRGINIA ELECTRIC & POWER CO.	175
CHESWICK	DUQUESNE LIGHT CO.	67
CHICKASAW	ALABAMA POWER CO.	29
CHOLLA	ARIZONA PUBLIC SERVICE CO	32
CHOUTEAU	GRAND RIVER DAM AUTHORITY	77
CIMARRON RIVER	CENTRAL TELE & UTIL CORP - WESTERN PWR DIV.	46
CLARK	CENTRAL TELE & UTIL CORP - SO. COLO. PWR DIV.	47
CLARK	NEVADA POWER CO.	110
CLARKE	HOUSTON LIGHTING & POWER CO.	82
CLEARY	TAUNTON MUNICIPAL LIGHTING PLANT	156
CLIFFSIDE	DUKE POWER CO.	65
CLIFTY CREEK	INDIANA-KENTUCKY ELECTRIC CORP.	86
CLINCH RIVER	APPALACHIAN POWER CO	31
COBB	CONSUMERS POWER CO.	58
COFFEEN	CENTRAL ILLINOIS P.S. CO.	42
COFFEYVILLE	COFFEYVILLE PWR AND LIGHT	51
COLBERT A	TENNESSEE VALLEY AUTHORITY	157
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PITTSBURG	PACIFIC GAS & ELECTRIC CO.	125
PLANT #2	LUBBOCK, CITY OF	101
PLANT #3	LAKELAND LIGHT & WATER DEPT.	96
PLANT #65	MICHIGAN STATE UNIVERSITY	103
PLANT X	SOUTHWEST PUBLIC SERVICE CO.	152
POINT BEACH	WISCONSIN ELECTRIC POWER CO.	181
PORT EVERGLADES	FLORIDA POWER & LIGHT CO.	72
PORT JEFFERSON	LONG ISLAND LIGHTING CO.	98
PORT WASHINGTON	WISCONSIN ELECTRIC POWER CO.	180
PORT WENTWORTH	SAVANNAH ELECTRIC & POWER CO.	144

PLANT NAME	UTILITY NAME	PAGE
PORTLAND	METRO EDISON CO.	103
PORTSMOUTH	VIRGINIA ELECTRIC & POWER CO.	175
POSSUM POINT	VIRGINIA ELECTRIC & POWER CO.	175
POSTON	COLUMBUS & SOUTHERN OHIO ELEC. CO.	52
POTOMAC RIVER	POTOMAC ELECTRIC POWER CO.	134
POTRERO	PACIFIC GAS & ELECTRIC CO.	125
POWER HOUSE	NEW ORLEANS SEWAGE & WTR BRD	144
POWERTON	COMMONWEALTH EDISON CO.	54
PRAGER	PUBLIC SERVICE CO. OF NEW MEXICO	134
PRAIRE CREEK #1-3	IOWA ELECTRIC LIGHT & POWER CO.	88
PRAIRE CREEK #4	IOWA ELECTRIC LIGHT & POWER CO.	88
PRESQUE ISLE	UPPER PENINSULA GEN. CO.	172
PRITCHARD	INDIANAPOLIS POWER & LIGHT CO.	86
PUEBLO	CENTRAL TELE & UTIL CORP - SO. COLO. PWR DIV.	47
PULLIAM	WISCONSIN PUBLIC SERVICE CORP.	182
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REEVES AVENUE	VIRGINIA ELECTRIC & POWER CO.	175
REID	BIG RIVERS RURAL ELECTRIC COOP	37
RICHMOND	PHILADELPHIA ELECTRIC CO.	131
RIDGELAND	COMMONWEALTH EDISON CO.	55
RIO GRANDE	EL PASO ELECTRIC CO.	68
RIO PECOS	WEST TEXAS UTILITIES CO.	179
RIPLEY	KANSAS GAS & ELECTRIC CO.	94
RITCHIE	ARKANSAS POWER & LIGHT CO.	34
RIVER CREST	TEXAS POWER & LIGHT CO.	161
RIVER ROUGE	THE DETROIT EDISON CO.	166
RIVERBANK	OKLAHOMA GAS & ELECTRIC CO.	121
RIVERBEND	DUKE POWER CO.	66
RIVERSIDE	BALTIMORE GAS & ELECTRIC CO.	36
RIVERSIDE	HOLYOKE WATER POWER CO.	81
RIVERSIDE	IOWA-ILLINOIS GAS & ELECTRIC CO.	89
RIVERSIDE	NORTHERN STATES POWER CO. (MINN.)	116
RIVERSIDE	SAVANNAH ELECTRIC & POWER CO.	144
RIVERTON	EMPIRE DIST. ELECTRIC CO.	69
RIVERTON	POTOMAC EDISON CO. (VA.)	133
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ROCHESTER #13	ROCHESTER GAS & ELECTRIC CORP.	142
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SAN BERNARDINO	SOUTHERN CALIFORNIA EDISON CO.	149
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SOMERSET	MONTAUP ELECTRIC CO.	108
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SOUTHEAST	NORTHERN STATES POWER CO. (MINN.)	116
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SOUTHWARK	PHILADELPHIA ELECTRIC CO.	132
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STANTON	UNITED POWER ASSOC.	172
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STEEL	THE UNITED ILLUMINATING CO.	170
STERLINGTON	LOUISIANA POWER & LIGHT CO.	99
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STOUT	INDIANAPOLIS POWER & LIGHT CO.	86
STREETER	CEDAR FALLS UTILS	42
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12TH STREET	VIRGINIA ELECTRIC & POWER CO.	176
TWIN BRANCH	INDIANA & MICHIGAN ELECTRIC CO.	85
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VALLEY	LOS ANGELES DEPT. OF WATER & POWER	99
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WALLACE	CENTRAL ILLINOIS LIGHT CO.	44
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WARRICK	SOUTHERN INDIANA G. E. CO.	151
WATEREE	SOUTH CAROLINA ELECTRIC & GAS CO.	146
WATERSIDE	CONSOLIDATED EDISON CO. OF NY	58
WATSON	MISSISSIPPI POWER CO.	105
WATTS BAR	TENNESSEE VALLEY AUTHORITY	158
WAUKEGAN	COMMONWEALTH EDISON CO.	55
WEADOCK	CONSUMERS POWER CO.	60
WEATHERSPCON	CAROLINA POWER & LIGHT CO.	42
WEBSTER	HOUSTON LIGHTING & POWER CO.	83
WELEETKA	PUBLIC SERVICE CO. OF OKLAHOMA	140
WELLINGTON	WELLINGTON, CITY OF	176
WERNER	JERSEY CENTRAL POWER & LIGHT CO.	91

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WEST SPRINGFIELD	WESTERN MASSACHUSETTS ELECTRIC CO.	179
WESTON	WISCONSIN PUBLIC SERVICE CORP.	182
WESTPORT	BALTIMORE GAS & ELECTRIC CO.	36
WHARTON	HOUSTON LIGHTING & POWER CO.	83
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WHITING	CONSUMERS POWER CO.	60
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WILLMAR	WILLMAR MUNICIPAL UTILITIES	180
WILLOW ISLAND	MONONGAHELA (ALLEGHENY) POWER CO.	107
WILLOW GLEN	GULF STATES UTILITIES CO.	79
WILMARTH	NORTHERN STATES POWER CO. (MINN.)	116
WILSON	MISSISSIPPI POWER & LIGHT CO.	105
WINDSOR	BEECH BOTTOM POWER CO.	37
WISDOM	CORN BELT POWER CO.	60
WOODCOCK	OHIO POWER CO.	119
WOOD RIVER	ILLINOIS POWER CO.	84
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YORKTOWN	VIRGINIA ELECTRIC & POWER CO.	176
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ZION	COMMONWEALTH EDISON CO.	56
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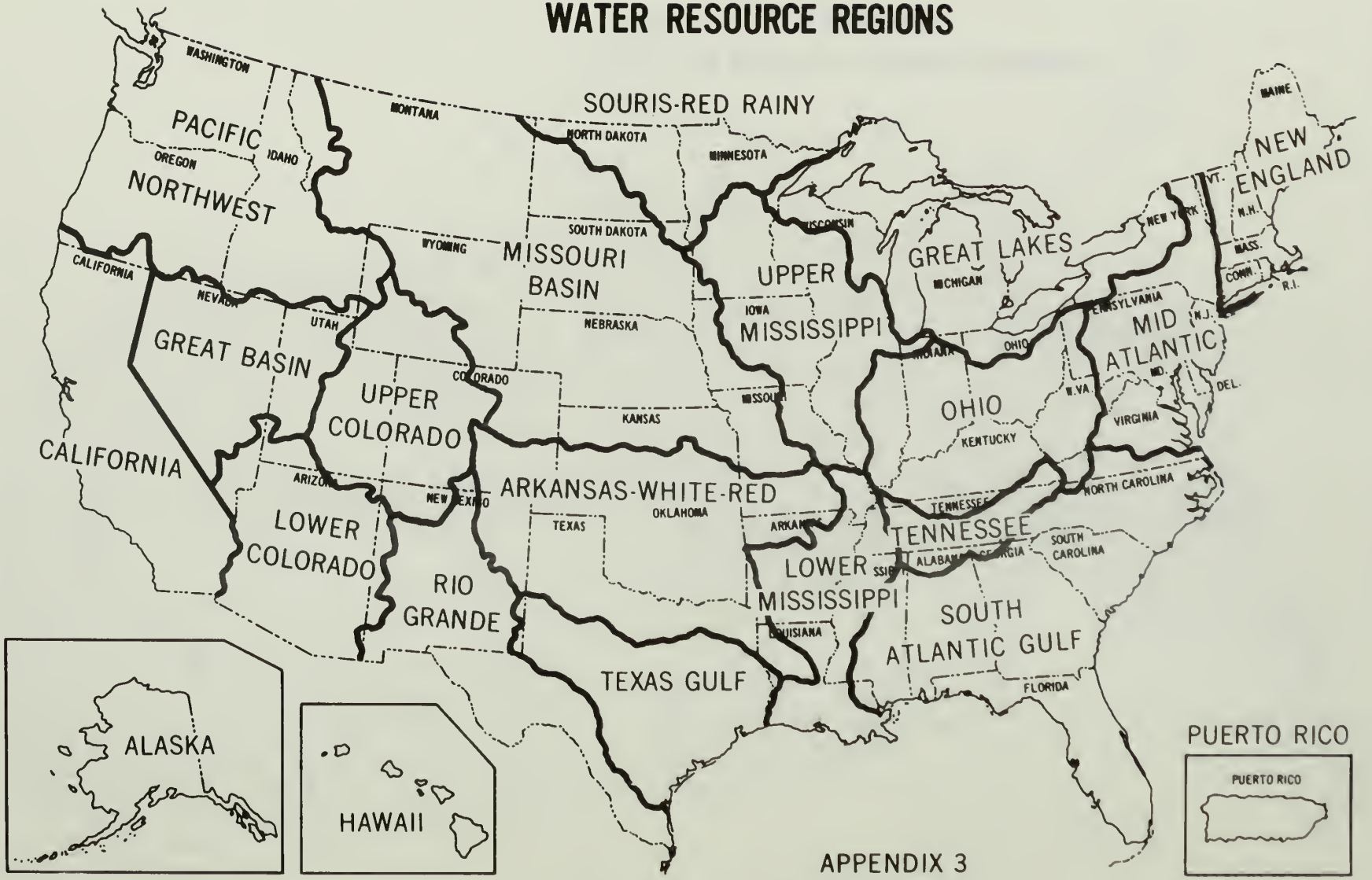
AIR QUALITY CONTROL REGIONS

APPENDIX 2

WATER RESOURCE REGIONS



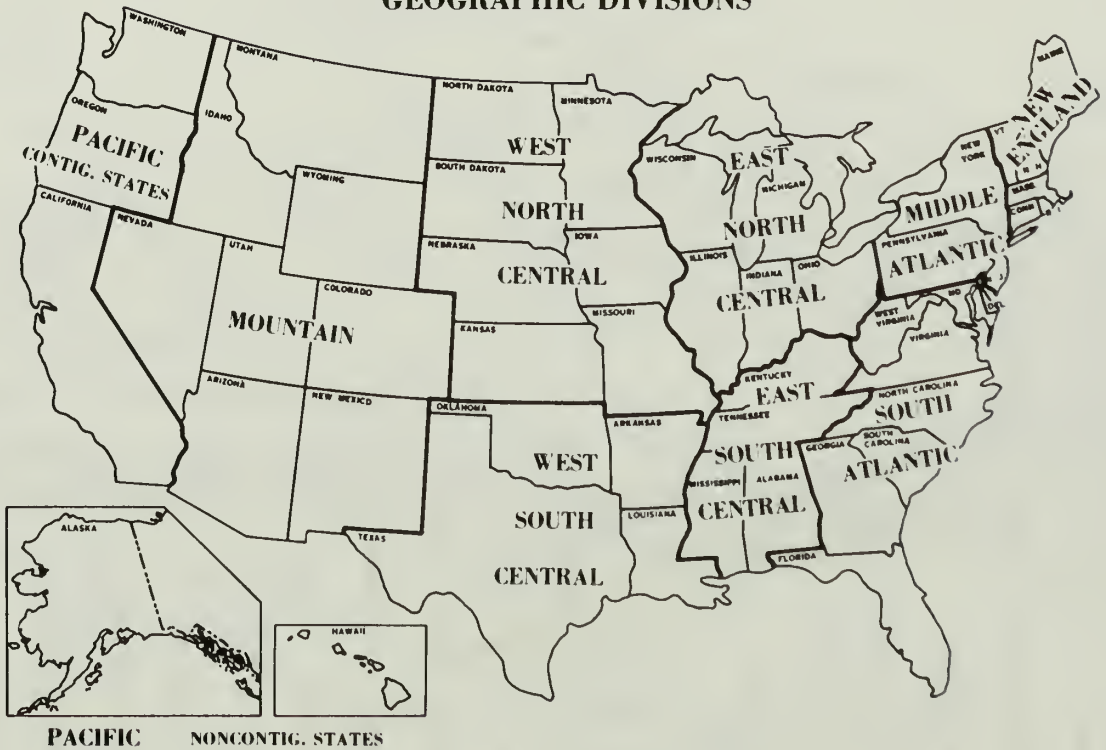
APPENDIX 3

Water Resource Regions

The following list gives the numbers and names of the Water Resource Regions as used in the summary tables of this publication. Where the names given on the map differ from those on the summary tables, the map name is given parenthetically:

1. New England
2. Middle Atlantic
3. South Atlantic - Gulf
4. Great Lakes
5. Ohio
6. Tennessee
7. Upper Mississippi
8. Lower Mississippi
9. Souris - Red - Rainy
10. Missouri (Missouri Basin)
11. Arkansas - White - Red
12. Texas - Gulf
13. Rio Grande
14. Upper Colorado
15. Lower Colorado
16. Great Basin
17. Columbia - North Pacific (Pacific Northwest)
18. California - South Pacific (California)

GEOGRAPHIC DIVISIONS



APPENDIX 4

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